

Close Out Documents

AP-8 – 4618 High St.

Asbestos Abatement and Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Jenn Bradtmueller
160 Inverness Drive West, Suite 110
Englewood CO 80112

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1. Closeout Letter

December 26, 2018

Kiewit Infrastructure Co.
160 Inverness Drive West, Suite 110
Englewood, CO 80112

Re: SSCR AP-8 4618 High St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the asbestos abatement and demolition of the structure located at 4618 High St Denver, CO 80216, also referred as parcel AP-8, is complete.

The scope of work included the removal of Regulated Building Materials (RMBs), asbestos abatement, demolition of a 1,305 square foot residential structure with three sheds (1,068 additional SF total), and the removal of the curb and driveway.

This document has been prepared to furnish you with key documents associated with this project for your records.

On behalf of the JKS Industries team, we would like to extend our appreciation to working with you on this project and look forward to working with you in the future.

Regards,



Jeffrey Knight,
President

2. CDPHE Asbestos Abatement Permit

ASBESTOS ABATEMENT PERMIT

This permit is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008, the Colorado Air Pollution Prevention and Control Act (25-7-101 or 25-7-501 et seq., C.R.S.) and the following provisions. It is only for the purpose of allowing asbestos abatement.

ADDITIONAL PERMIT PROVISIONS:

By performing work under this permit the abatement contractor agrees that the Division may revoke or suspend this permit should the Division find that the contractor:

- has violated or has aided and abetted in the violation of 25-7-101 or 25-7-501 et seq., C.R.S. or Regulation No. 8, Part B, or an order of the Division or Commission,
- has failed to meet any permit and notification requirement or failed to correct any violations cited by the Division during any inspection within a reasonable period of time, as may be determined by the Division,
- has used misrepresentation or fraud in obtaining this permit, or,
- has committed any act or omission which does not meet generally accepted standards of the practice of asbestos abatement.

As a contractor, you may be subject to other licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

THE ORIGINAL PERMIT MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This asbestos abatement permit is valid beginning 10/23/2018 through 11:59 PM on 10/22/2019.

The actual scheduled work dates are from 10/23/2018 through 11/2/2018.

Approval issued on: 10/25/2018

Record number: 142799

Notice Number: 18DE7238A-13

Variance: None

Comments: None

For the location specified below:

**AP-8 residential
Bedrooms, kitchen closet, living room
4618 High St.
Denver
Denver County**

Fee paid:

Check number:

Project Supervisor:

Andre M. Williams

Cerification No.: 15776

Project AMS:

Logan Greenfield

Cerification No.: 20715

Project Manager:

This permit has been issued to:

**JKS Industries, LLC
747 Sheridan Blvd Unit 9A
Lakewood, CO 80214**

Issued by: CLB



ASBESTOS ABATEMENT NOTIFICATION and PERMIT APPLICATION FORM

FEE MUST ACCOMPANY THIS FORM. INCOMPLETE APPLICATIONS WILL BE RETURNED.



Colorado Department
of Public Health
and Environment

Single Family Residential Dwelling (SFRD) > 50 LF or 32 SF or a 55-gal. drum, but ≤ 260 LF or 160 SF or a 55-gallon drum			Public and Commercial Building, School, and Single-Family Residential Dwelling: > 260 LF or 160 SF or a 55-gallon drum		
[code 200] <input type="checkbox"/>	\$0	Courtesy Notice	[code 100] <input type="checkbox"/>	\$0	Courtesy Notice
[code 205] <input type="checkbox"/>	\$60	Non-Public Access Notice (Opt Out)	[code 105] <input type="checkbox"/>	\$80	Non-Public Access Notice
[code 210] <input type="checkbox"/>	\$60	Notice	[code 110] <input type="checkbox"/>	\$80	Notice
[code 230] <input type="checkbox"/>	\$180	30-Day Permit	[code 130/232] <input type="checkbox"/>	\$400	30-Day P&C/SFRD Permit
[code 290] <input type="checkbox"/>	\$300	90-Day Permit	[code 190/292] <input type="checkbox"/>	\$800	90-Day P&C/SFRD Permit
[code 265] <input type="checkbox"/>	\$420	365-Day Permit	[code 165/267] <input type="checkbox"/>	\$1200	365-Day P&C/SFRD Permit
[code 180/280] <input type="checkbox"/>	\$55	Notice or Permit Transfer	[code 177] <input type="checkbox"/>	\$80	Phase <u>13</u> of Multiple Phase Permit #

Submit form to:
Permit Coordinator
Colorado Dept. of Public Health
and Environment
APCD-IE-B1
4300 Cherry Creek Drive South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
asbestos@state.co.us

Abatement Contractor			Abatement Site			Building Owner		
Company Name JKS Industries			Building Name AP-8 Residential			Owner Name CDOT		
Street Address 747 Sheridan Blvd. Unit 9A			Specify location in the building where work will take place (e.g. floor, room, wing, etc.) Bedrooms, Kitchen Closet and Living Room			Contact Athony DeVito		
City Lakewood	State CO	Zip code 80214	Street Address 4618 High Street			Street Address 2000 S. Holly St.		
Telephone # (303) 238-0207	Fax # (303) 238-0452		City Denver	County Denver	Zip code 80216	City Denver	State CO	Zip code 80222
Project Supervisor George Thomas		CO. Cert # 17192	Building Contact Doug Messier		Cell Phone # (817) 320-6749	Telephone # (303) 512-5900		Fax # ()
Project Personnel			Project Information			Disposal Site		
CO Project Mgr. Name N/A			Start Date 11/27/2018	End Date 12/12/2018		Landfill Name Denver Arapahoe Disposal		
Cell Phone # ()	CO Project Designer #		Start Time 6:30am AM	End Time AM 5:00 PM		Street Address 3500 South Gun Club Road		
CO Project Designer Name Daniel Benecke			Check the day(s) of operation: Su M Tu W Th F Sa <input type="checkbox"/> <input checked="" type="checkbox"/>			City Aurora	State CO	Zip code 80018
Cell Phone # (303) 232-2660	CO Project Designer # 1947		Emergency? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Type of ACM: TSI, Texture, VAT, etc. TDW and Paper Duct Wrap		CDPHE Use Only		
Consulting Firm Name All Phase Consulting, Inc.		Registration # 15979	Linear Feet / Type I	Square Feet / Type = 3138 3129 SF of TDW	55 gal. Drums	Postmark or Delivery date 10-9-18		Approved by:
A.M.S. Name Logan Greenfield						Form of Payment & #		PM req'd? Y N <input checked="" type="radio"/> W
Cell Phone # (719) 545-0375	CO A.M.S. Cert # 20715					Permit # 1800728AB	Record # 142199	Date Issued:

Please describe below the work practices and procedures to be employed in conducting the abatement of asbestos. **BE SPECIFIC.** Indicate type(s) of ACM to be abated (e.g. VAT, ceiling tile, TSI, etc.). Use another page if necessary.

This Phase 13 project will consist in removal and disposal of 3129 SF of TDW and 9 SF of paper duct wrap with in a full containmnet. The friable materials will be removed using small hand tools (carpenters hammer, cats claw, crow bar and chisels) the material will be kept wet (1500 psi airless sprayer with amended water) The full containment will employ negative air pressure greater than -0.02cw, a fully functional decon, 1'x1' view port and two chamber waste loadout. All work will be in accordance with Colorado Regulation #8 Part B. The full conatimnet will be inspected and cleared by a State Certified AMS.

APPROVED

DATE 10-16-18 CDPHE

3. CDPHE Demolition Permit

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/9/2018.

The actual scheduled work dates are from 11/9/2018 through 11/16/2018.

Approval issued on: 11/7/2018

Record number: 143105

Notice Number: 18DE7411D

For the location specified below:

AP-8 Residential

4618 High St.

Denver

Denver County

Fee Paid: \$60.00

Check number: 5642

Asbestos Building Inspector:

Richard L. Ralston

Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: TS





Colorado Department
of Public Health
and Environment

APPROVED

DATE 11/6/18 CDPHE DWS

DEMOLITION NOTIFICATION APPLICATION FORM
APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 60.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Demolition Contractor	Company Name: JKS Industries		Building Name: AP-8 Residential		
	Street: 747 Sheridan Blvd. #9A		Square footage of footprint of facility or portion of facility to be demolished <u>1305</u>		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4618 High St.	
	Telephone # (303) 238-0207	Fax # (303) 238-0452	City: Denver		Zip Code: 80216
Project Manager: Jeffrey Knight		Cell Phone # (720) 402-4410	Proposed Start Date 11/9/18	Proposed Completion Date 11/6/18	
I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.			Method/Mean of Demolition:		
Signature: 		Print Name: Jeffrey Knight	<input checked="" type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify:		
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site			[†] Burning requires additional authorization - Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator		
Asbestos Removal Contractor	General Abatement Contractor (GAC) JKS Industries		Owner's Name: CDOT		
	CDPHE Asbestos Permit # 18DE 7 2-384	Total Quantity of Asbestos Removed 3138 SF	Street: 2000 S Holly St.		
	Date Removal Completed 11/2/2018	Telephone # (303) 238-0207	City: Denver	State: CO	Zip Code: 80222
	Type(s) of Asbestos-Containing Material Removed: 3129 SF TDW, 9 SF Paper Duct Wrap		Contact's Name: Anthony DaVito		Telephone # (303) 512-5900
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):				
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input checked="" type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:				
	Signature: (In Blue Ink) 		Printed Name: Richard Ralston		
	Date of Final Inspection 11/02/2018	CO Cert # 4261	Expiration Date 02/02/2019	Telephone # (719) 225-6953	Cell Phone # ()
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).				
	CHECK THE APPROPRIATE BOX:				
	<input type="checkbox"/> Building Owner	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Other	Date: 11/1/18	
Signature: 		Print Name: JEFFREY KNIGHT			
THIS BOX IS FOR CDPHE USE ONLY:					
Postmark or Hand Delivery Date: 11/05/18		Approved By:		Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380	
Form of Payment & #: ck 5642 \$60		Permit #: 18027411D	Record #: 143105	Date Issued:	

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 11/06/18 CDPHE DWS

NOV - 5 2018

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/9/2018.

The actual scheduled work dates are from 11/9/2018 through 11/16/2018.

Approval issued on: 11/7/2018

Record number: 143106

Notice Number: 18DE7412D

For the location specified below:

AP-8 Bldg. 1

4618 High St.

Denver

Denver County

Fee Paid: \$55.00

Check number: 5642

Asbestos Building Inspector:

Richard L. Ralston

Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: TS





Colorado Department
of Public Health
and Environment

APPROVED
DATE 11/6/18 CDPHE Jwg

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 55.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Demolition Contractor	Company Name: JKS Industries		Building Name: AP-8 Auxiliary Building 1		
	Street: 747 Sheridan Blvd. #9A		Square footage of footprint of facility or portion of facility to be demolished 453		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4618 High St	
	Telephone # (303) 238-0207	Fax # (303) 238-0452	City: Denver		Zip Code: 80216
	Project Manager: Jeffrey Knight		Cell Phone # (720) 402-4410		Proposed Start Date 11/9/18
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.		Proposed Completion Date 11/16/18		Method/Mean(s) of Demolition:
Signature:		Print Name: Jeffrey Knight		<input checked="" type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify:	
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site				[†] Burning requires additional authorization - Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator	
Asbestos Removal Contractor	General Abatement Contractor (GAC) N/A		Owner's Name: CDOT		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed	Street: 2000 S Holly St.		
	Date Removal Completed	Telephone #	City: Denver		State: CO
	Type(s) of Asbestos-Containing Material Removed:		Zip Code: 80222		Contact's Name: Anthony DaVito
		Telephone # (303) 512-5900			
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):				
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input checked="" type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:				
	Signature: (In Blue Ink) 		Printed Name: RICHARD RALSTON		
	Date of Final Inspection 11/02/2018	CO Cert # 4261	Expiration Date 02/02/2019	Telephone # (719) 225-6958	Cell Phone # ()
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).				
	CHECK THE APPROPRIATE BOX:				
	<input type="checkbox"/> Building Owner	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Other	Date: 11/1/18	
Signature:		Print Name: JEFFREY KNIGHT			
THIS BOX IS FOR CDPHE USE ONLY:					
Postmark or Hand Delivery Date: 11/05/18		Approved By:		Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380	
Form of Payment & #: chk 5642 \$55		Permit #: 18D0742D	Record #: 43106	Date Issued:	

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 11/6/18 CDPHE Jwg

NOV -5 2018
APCD
STANDARD

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

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THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/9/2018.

The actual scheduled work dates are from 11/9/2018 through 11/16/2018.

Approval issued on: 11/7/2018

Record number: 143108

Notice Number: 18DE7414D

For the location specified below:

AP-8 Bldg. 2

4618 High St.

Denver

Denver County

Fee Paid: \$55.00

Check number: 5642

Asbestos Building Inspector:

Richard L. Ralston

Cerification No.: 4261

Inspection Date: 11/02/2018

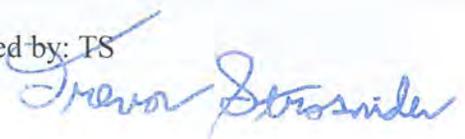
This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: TS





Colorado Department
of Public Health
and Environment

APPROVED
DATE 11/6/18 CDPHE *owd*

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 55.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Demolition Contractor	Company Name: JKS Industries		Building Name: AP-8 Auxiliary Building 2		
	Street: 747 Sheridan Blvd. #9A		Square footage of footprint of facility or portion of facility to be demolished 221		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4618 High St	
	Telephone # (303) 238-0207	Fax # (303) 238-0452	City: Denver		Zip Code: 80216
	Project Manager: Jeffrey Knight		County: Denver		Proposed Start Date 11/9/18
	Cell Phone # (720) 402-4410		Proposed Completion Date 11/16/18		Method/Mean of Demolition:
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.		<input checked="" type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify:		
Signature:		Print Name: Jeffrey Knight		[†] Burning requires additional authorization - Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator	
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site					
Asbestos Removal Contractor	General Abatement Contractor (GAC) N/A		Owner's Name: CDOT		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed	Street: 2000 S Holly St.		
	Date Removal Completed	Telephone #	City: Denver		State: CO
	Type(s) of Asbestos-Containing Material Removed:		Zip Code: 80222		Contact's Name: Anthony DaVito
		Telephone # (303) 512-5900			
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):				
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:				
	Signature: (In Blue Ink) 		Printed Name: Richard Rabston		
	Date of Final Inspection 11/02/2018	CO Cert # 4261	Expiration Date 02/02/2019	Telephone # (719) 225-6953	Cell Phone # ()
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).				
	CHECK THE APPROPRIATE BOX:				
	<input type="checkbox"/> Building Owner		<input checked="" type="checkbox"/> Contractor		<input type="checkbox"/> Other
Signature:		Date: 11/1/18			Print Name: Jeffrey Knight
THIS BOX IS FOR CDPHE USE ONLY:					
Postmark or Hand Delivery Date: 11/5/18		Approved By: <i>owd</i>		Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380	
Form of Payment & #: CC 5642 \$\$\$		Permit #: 18D0744D	Record #: 43108	Date Issued:	

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 11/6/18 CDPHE 11/6/18

NOV - 5 2018

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 11/9/2018.

The actual scheduled work dates are from 11/9/2018 through 11/16/2018.

Approval issued on: 11/7/2018

Record number: 143107

Notice Number: 18DE7413D

For the location specified below:

AP-8 Bldg. 3

4618 High St.

Denver

Denver County

Fee Paid: \$55.00

Check number: 5642

Asbestos Building Inspector:

Richard L. Ralston

Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: TS

Trevor Strassner



Colorado Department
of Public Health
and Environment

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 55.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

APPROVED
DATE 11/6/18 CDPHE JWS

Demolition Contractor	Company Name: JKS Industries		Building Name: AP-8 Auxiliary Building 3		
	Street: 747 Sheridan Blvd. #9A		Square footage of footprint of facility or portion of facility to be demolished 394		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4618 High St	
	Telephone # (303) 238-0207	Fax # (303) 238-0452	City: Denver		Zip Code: 80216
	Project Manager: Jeffrey Knight		Cell Phone # (720) 402-4410	Proposed Start Date 11/9/18	Proposed Completion Date 11/16/18
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.				
Signature: 		Print Name: Jeffrey Knight			
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site					
Asbestos Removal Contractor	General Abatement Contractor (GAC) N/A		Owner's Name: CDOT		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed			
	Date Removal Completed	Telephone #			
	Type(s) of Asbestos-Containing Material Removed:				
Building Owner	Street: 2000 S Holly St.		City: Denver		
	State: CO	Zip Code: 80222	Contact's Name: Anthony DaVito		
	Telephone # (303) 512-5900		Telephone # (303) 512-5900		
	<p>With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):</p> <p><input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:</p>				
Signature: (In Blue Ink) 		Printed Name: Richard Rausz			
Date of Final Inspection 11/02/2018	CO Cert # 42261	Expiration Date 02/08/2019	Telephone # ()	Cell Phone # ()	
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).				
	CHECK THE APPROPRIATE BOX:				
	<input type="checkbox"/> Building Owner	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Other	Date: 11/1/18	
Signature: 		Print Name: JEFFREY KNIGHT			
THIS BOX IS FOR CDPHE USE ONLY:					
Postmark or Hand Delivery Date: 11/6/18		Approved By:		Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380	
Form of Payment & #: CC 5642 \$5		Permit #: 18D07413D	Record #: 43107	Date Issued:	

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 11/6/18 CDPHE JWS

RECEIVED
NOV -5 2018
CDPHE

4. JKS Asbestos Certifications



Colorado Department
of Public Health
and Environment

General Abatement Contractor

This certifies that

JKS Industries, LLC

GAC No.: 18531

has met the certification requirements of 25-7-507, C.R.S. and Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos abatement activities in the state of Colorado.

Issued: July 18, 2018

Expires: July 18, 2019


Authorized/APCD Representative

SEAL

5. JKS Workers Asbestos Certifications

Colorado Department
of Public Health and
Environment



Supervisor



Asbestos Certification

**Andre M.
Williams**

Expires: 11/21/2018 Cert. #: 15776
Date Issued: 11/21/2017



INTERNATIONAL

Environmental and Safety Training LLC
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFICATE TRAINING

ANDREE WILLIAMS

Has successfully completed
The EPA-APPROVED AHERA ANNUAL ASBESTOS REFRESHER
COURSE for **CONTRACTOR/SUPERVISOR**
And passed the requirements examination in that discipline
This course is EPA-Approved under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 09/15/2018
No. Hours 8
Certificate No. C0091518-02ASR
Expires 09/15/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



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Training Director

Midtown Occupational Health Services
 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applicants Name Andree Williams

The above individual was seen by me on 3/19/12 in accordance to 29 CFR 1926.1101 (Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
 Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations CXR 2 @ now pending


 Examining Provider

3/19/19
 Date

Respirator Fit Test

I, Andree Williams, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 5/7/2018 Fit Test Conductor: Rabea Domingo

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Andree Williams

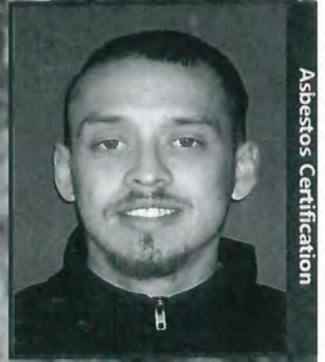
Date: 5/7/18

Fit Test Conductor Signature: Rabea Domingo

Date: 5/7/2018

Colorado Department
of Public Health and
Environment

Worker



Asbestos Certification

David
Schlote

Expires: 1/22/2019 Cert. #: 24229
Date Issued: 1/22/2018

INTERNATIONAL

Environmental and Safety Training L.L.C.

720 Billings Street Unit F

Aurora, Colorado 80011

Phone # (720) 859-3134

Fax # (720) 859-0660



CERTIFIES THAT

DAVID J. SCHLOTE

Has successfully completed

The **EPA- APPROVED AHERA ASBESTOS COURSE** for **WORKER**

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 01/08/2018 - 01/11/2018

No. Hours 32

Certificate No. CO010818-06AWI

Expires 01/11/2019

This course meets
the requirements of
AQCC Reg. #8



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Training Director

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name David Schlotz

The above individual was seen by me on 2/14/18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations CXR B read papers

Matthew Edwards, PA.-C
Midtown Occupational
Health Services, P.C.
2490 W. 26th Ave., Bldg. A, Suite 300
Denver, CO 80211
303-831-9393

Matthew Edwards
Examining Provider

2/14/18
Date

Respirator Fit Test

I, David Schlote, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 05/07/2018 Fit Test Conductor: Ruben Dmy

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: David Schlote

Date: 05-07-18

Fit Test Conductor Signature: [Signature]

Date: 05/07/2018

Colorado Department
of Public Health and
Environment



Worker

Asbestos Certification

**Deisy
Arellanos Lopez**

Expires: 4/30/2019 Cert. #:24492
Date Issued: 4/30/2018

INTERNATIONAL

Environmental and Safety Training L.L.C.

720 Billings Street Unit F

Aurora, Colorado 80011

Phone # (720) 859-3134

Fax # (720) 859-0660



CERTIFIES THAT

DEISY YANETH ARELLANOS LOPEZ

Has successfully completed
The **EPA- APPROVED AHERA ASBESTOS COURSE** for **WORKER**
And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 04/16/2018 - 04/19/2018
Exam Date 04/19/2018
No. Hours 32
Certificate No CO041918-07AWI
Expires 04/19/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



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Training Director

Colorado Occupational Medical Partners

OSHA ASBESTOS / HAZARDOUS MATERIALS / RESPIRATOR CERTIFICATION

In accordance with OSHA regulations: _____ 29 CFR 1926.1101 Asbestos
_____ 29 CFR 1910.120(f) Hazardous Materials
/ _____ 29 CFR 1910.134(b) Respirator Certification

The examining physician will provide the employer with a written opinion which shall contain the following:

1. This is to certify that on this date: 5/3/18, and in accordance with regulations as indicate above, I have performed a comprehensive examination on Deisy Arellano, whose Social Security Number is _____
2. Based on my findings, I have determined that this individual
 MAY () MAY NOT wear a respirator device while performing his / her required work tasks, and
 IS () IS NOT medically cleared for work with () ASBESTOS
() HAZARDOUS MATERIALS
3. The results of my examination () HAVE HAVE NOT detected a medical condition which would place the employee at increased risk of material health impairment from exposure to
 RESPIRATORY EQUIPMENT () ASBESTOS () HAZARDOUS MATERIALS
4. In accordance with OSHA requirements, I have informed the above-named patient of medical conditions which could result from his / her exposure to
 RESPIRATORY EQUIPMENT () ASBESTOS () HAZARDOUS MATERIALS
5. In accordance with OSHA requirement, I have fully explained the results of the medical examination and laboratory tests to the above-named patient.

6. COMMENTS: _____

THE EMPLOYEE HAS BEEN ADVISED OF THE RESULT OF THE EVALUATION AND HAS BEEN GIVEN AN EXPLANATION OF MEDICAL CONDITIONS THAT MAY RESULT FROM ASBESTOS EXPOSURE, AND OF THE INCREASED RISK OF LUNG CANCER ATTRIBUTABLE TO THE COMBINED EFFECT OF SMOKING AND ASBESTOS EXPOSURE

The complete medical examination on the above-named individual will be forwarded to the employer pending final review and interpretation of any additional medical data collected.

5/3/18
Date

[Signature]
Examining Physician / Provider

Respirator Fit Test

I, Deisy Yaneth Arellanos López acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 5/14/2018 Fit Test Conductor: Rubén Arango

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage
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Employee Signature: *Deisy Arellanos*

Date: 5/14/2018

Fit Test Conductor Signature: *Rubén Arango*

Date: 5/14/2018

Colorado Department
of Public Health and
Environment



Worker



Asbestos Certification

**Lucia
Gaspar-Domingo**

Expires: 6/13/2019 Cert. #:24651
Date Issued 6/13/2018

INTERNATIONAL

Environmental and Safety Training L.L.C.

720 Billings Street Unit F

Aurora, Colorado 80011

Phone # (720) 859-3134

Fax # (720) 859-0660



CERTIFIES THAT

LUCIA GASPAR DOMINGO

Has successfully completed
The **EPA- APPROVED AHERA ASBESTOS COURSE** for **WORKER**
And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 06/04/2018 - 06/07/2018
Exam Date 06/07/2018
No. Hours 32
Certificate No CO060718-18AWI
Expires 06/07/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Training Director

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Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Lucia Gaspar

The above individual was seen by me on 6-28-18 in accordance to 29 CFR 1926.1101 (Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. N/A Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

FAXED
JUN 28 2018

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____ Matthew Edwards, PA.-C
 _____ Midtown Occupational
 _____ Health Services, P.C.
 _____ 2490 W. 26th Ave., Bldg. A, Suite 200
 _____ Denver, CO 80211
 _____ 303-831-9393



 Examining Provider

06-28-2018

 Date

FAXED
JUN 28 2018

Respirator Fit Test

I, Lucia Gaspar Domingo, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 7-10-18 Fit Test Conductor: Matthew C. O'Neal

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Lucia Gaspar-Domingo

Date: 7/10/18

Fit Test Conductor Signature: Matthew O'Neal

Date: 7/10/18

entra Medical Centers
19 Blvd. COLORADO SPRINGS, CO 80916
Tel: (719) 390-1727 Fax: (719) 390-9690
Surveillance - Asbestos

Colorado Department
of Public Health and
Environment



Supervisor



Asbestos Certification

Martha Yadira
Nahle

Expires: 4/16/2019 Cert. #: 18186

Date Issued: 4/16/2018

INTERNATIONAL



Environmental and Safety Training LLC
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

YADIRA NAHLE

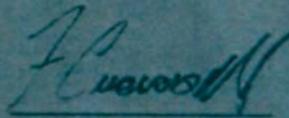
Has successfully completed
The EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER
COURSE for **CONTRACTOR/SUPERVISOR**
And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 04/07/2018
No. Hours 8
Certificate No. CO040718-2BASR
Expires 04/07/2019

This course meets the
requirements of
AQCC Reg. #8 Part B




Training Director

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

EMPLOYER TO COMPLETE THE FOLLOWING

Employer Name: Mitchell Sales

Address _____

Employee SSN _____

- Check Type of Respirator(s) To Be Used (Check ALL that apply)
- Air-purifying (non-powered) Air-purifying (powered)
 - Atmosphere supplying Respirator
 - Combination air-line and SCBA
 - Continuous-Flow Respirator
 - Supplied-Air Respirator
 - Open Circuit SCBA Closed Circuit SCBA
 - Dust Mask 1/2 Face with Cartridges Full Face with Cartridges
- Make _____ Model _____ Cartridge _____

- Extent of Usage (Check ALL that apply)
- On a daily basis _____ Total Hours
 - Occasionally - but not more than twice a week _____ Total Hours
 - Rarely - or for Emergency situations only _____ Total Hours

- Expected Physical Effort Required (Check ALL that apply)
- Light Moderate Heavy

- Exposure to Hazardous Materials (Check ALL that apply)
- Arsenic Benzene
 - Coke Oven Cotton Seed / Dust
 - Cadmium Formaldehyde
 - Methylene Chloride Lead
 - Textiles Chromium

- Special Work Conditions (Check ALL That Apply When Wearing Respirator)
- High Places Enclosed Places Protective Clothing
 - Temperature Extremes Mostly Cold Mostly Hot
 - Other _____

Questionnaire will be: HAND CARRIED MAILED OTHER

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

PLHCP¹ WRITTEN STATEMENT FOR RESPIRATORS (EMPLOYER)

PHYSICIAN WILL COMPLETE THE FOLLOWING
This report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act (ADA) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on separate forms, in separate files, and must be treated as a confidential medical record, with the following exceptions:
• Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
• First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

- Based upon my findings, I have determined that this individual (Check ALL that apply)
- Employee must schedule a medical examination with _____ prior to respirator approval and usage.
 - Class I - No Restrictions on Respirator Use To be used for Emergency Response or Escape Only Other _____
 - Class II - Some Specific Use Restrictions
 - Class III - Respirator Use is NOT PERMITTED
 - Further Testing / Evaluation is Required ²
 - Fit Test Required Fit Test Performed Satisfactorily
 - Fit Test Performed Unsatisfactorily Fit Test NOT Performed at: _____
 - Special prescription eyewear needed to accommodate respirator Special prescription eyewear needed to accommodate respirator
 - Facial hair needs to be shaved to assure tight seal on certain face masks.
 - Physician or other Licensed Healthcare Professional
 - Employee must seek further medical evaluation by a private physician who must submit a report to _____
- of his/her findings to _____

- (Check ALL that apply)
- The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
 - The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2, in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
 - In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposure that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the continued use of smoking and asbestos, lead and/or other chemical exposures.

Physician's Signature _____

Physician's Name (Printed) D3/16/19
Date of Exam Expires On

Physician's License Number (Optional in Most States) _____

Print Date: 03/16/2019
Revision Date: 06/29/1998

1. altp; smt; resp; employer
2. For the employer's file with a copy to the employee

Respirator Fit Test

I, Martha Nahle, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 10-08-18 Fit Test Conductor: Geo Thomas

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- MN Breathe normally through the respirator
- MN Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- MN Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- MN Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- MN Do several jumping jacks to ensure that the respirator does not come loose from your face.
- MN Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- MN Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Martha Nahle
Fit Test Conductor Signature: [Signature]

Date: 10-8-18
Date: 10-8-18

Colorado Department
of Public Health and
Environment



Asbestos Certification

Work
Replacement

**Paul R
Williams**

Expires: 6/8/2019 Cert. #: 19371
Date Issued: 6/29/2018

INTERNATIONAL

Environmental and Safety Training LLC
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660



CERTIFIES THAT

PAUL WILLIAMS

Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for CONTRACTOR/SUPERVISOR
And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 05/04/2018
No. Hours 8
Certificate No. CO050418-22ASR
Expires 05/04/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Paul Williams

The above individual was seen by me on 6-15-18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

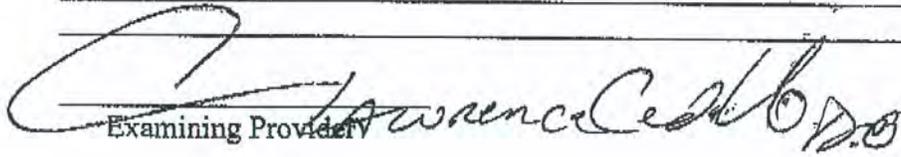
1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____


 Examining Provider

JUN 15 2018

Date

Lawrence Cedillo D.O.
Midtown Occupational
Health Services, P.C.
2490 W. 26th Ave., Bldg. A, Suite 300
Denver, CO 80211
303-831-9393

Midtown Occupational Health Services

2490 W 26th Avenue
 Building A, Suite 300
 Denver, CO 80211

Williams, Paul

ID: 0174 Age: 50 (3/9/1968)

Gender Male Height 68 in
 Ethnicity African Weight 166 lb BMI 25.2

FVC (ex only)

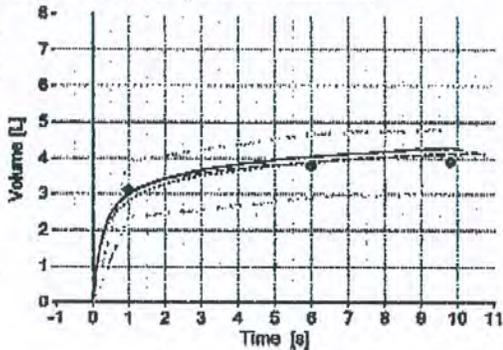
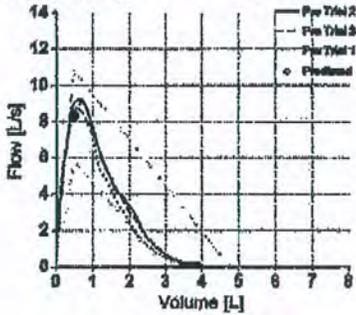
Your FEV1 / Predicted: 96%

Test Date 6/15/2018 10:48:16 AM Interpretation -- Value Selection Best Value
 Post Time Predicted Hankinson (NHANES III), 1999 BTPS (IN/EX) 1.12/1.02

Parameter	Pred	LLN	Pre				%Pred
			Best	Trial 2	Trial 3	Trial 1	
FVC [L]	3.90	3.02	4.29	4.29	4.16	4.13	110
FEV1 [L]	3.12	2.34	3.00	3.00	2.98	2.80	96
FEV1/FVC [%]	80.0	69.6	69.9	69.9	71.6	67.7*	87
FEF25-75 [L/s]	3.15	1.47	1.69	1.69	1.88	1.47	54
PEF [L/s]	8.34	5.83	9.28	9.28	8.68	9.10	111
FET [s]	-	-	9.8	9.8	10.4	9.9	-

* Indicates value outside normal range or significant post change.

Session Quality Pre B (FEV1 Var=0.02L (0.8%); FVC Var=0.13L (3.1%))



Lawrence Cedillo D.O.
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393

JKS INDUSTRIES

RESPIRATOR FIT TEST

APPENDIX A – NORTH

EMPLOYEES WORKING UNDER THIS RESPIRATOR PROGRAM MUST ACKNOWLEDGE BY SIGNING THIS FORM. THEY HAVE BEEN FIT TESTED AND HAVE BEEN TRAINED FOR THE PROPER USE AND CARE OF THEIR RESPIRATOR. THEY HAVE READ AND UNDERSTAND THE COMPANY'S WRITTEN RESPIRATOR PROGRAM MANUAL.

Paul R. Williams

EMPLOYEE NAME PRINTED OR TYPED

3/26/2018

DATE OF FIT TEST

Ruben O. Dongo

FIT TEST CONDUCTOR

RESPIRATOR:

1. MANUFACTURER: North

2. MODEL: 7700M

3. SIZE: Medium

4. APPROVAL NUMBER: TC-84A-0592

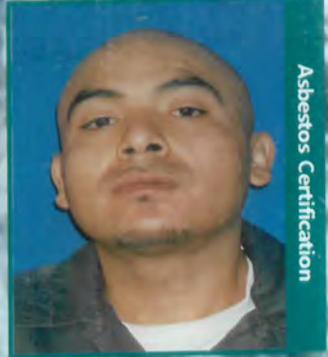
IRRITANT SMOKE

[Signature]
TESTING AGENT

Colorado Department
of Public Health and
Environment



Worker



Asbestos Certification

Victor
Lerma

Expires: 2/8/2019 Cert. #: 19908

Date Issued: 1/31/2018

INTERNATIONAL



Environmental and Safety Training L.L.C.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

VICTOR A. LERMA

Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 01/13/2018
No. Hours 8
Certificate No. CO011318-22AWR
Expires 01/13/2019

This course meets
the requirements of
AQCC Reg. #8



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Victor Laxma

The above individual was seen by me on 02/12/18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed:

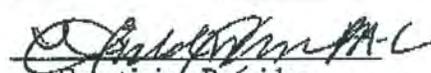
1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(i)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

 ✓ There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

 There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____


 Examining Provider

02/12/18
 Date

Richard Kraus M.S., PA.-C
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393

Respirator Fit Test

I, Victor Lerman, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 05-07-2018 Fit Test Conductor: Rabea Osmung

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Victor Lerman

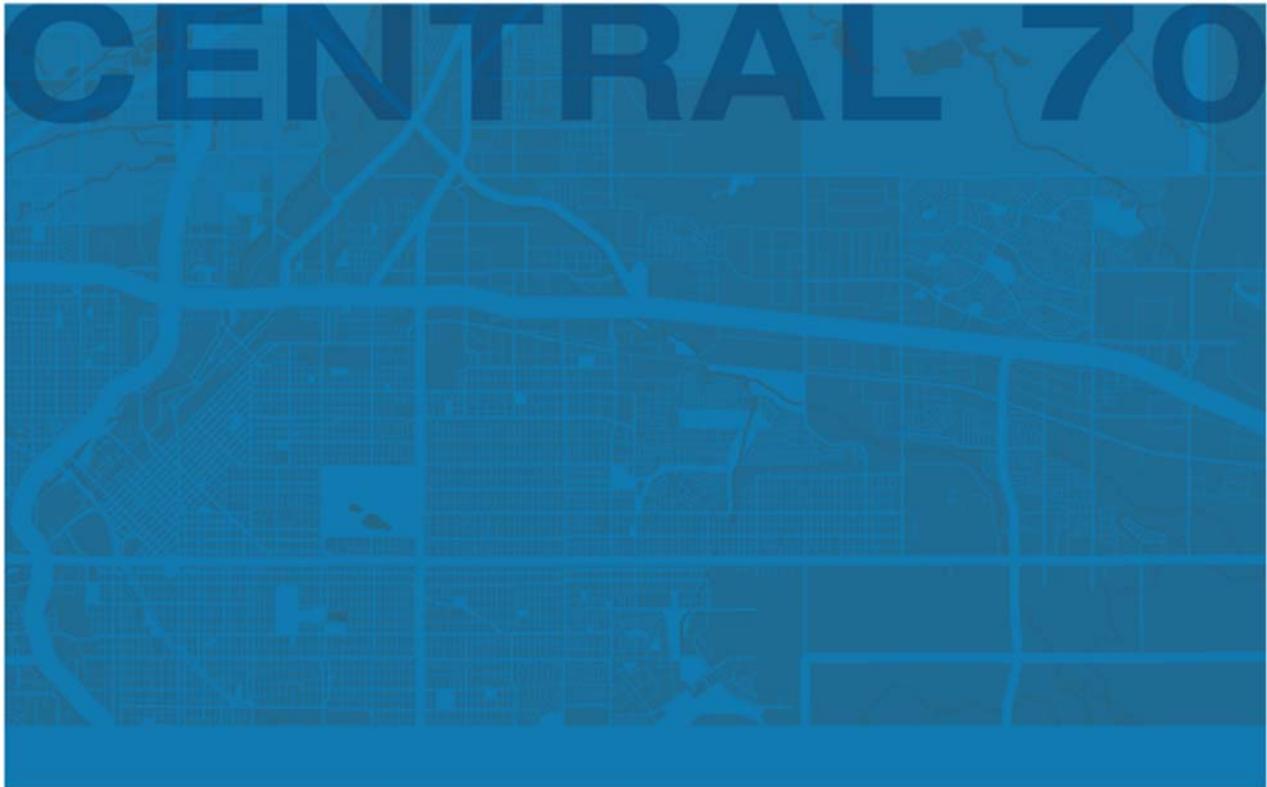
Date: 5-7-18

Fit Test Conductor Signature: Rabea Osmung

Date: 5/7/2018

6. Project Design

6a. SSAR



August 16, 2018



Structure Survey Assessment Report AP-8

4618 High Street

Denver, CO 80216

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LIST OF REPORT ACRONYMS/ABBREVIATIONS

ACMs	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
APEC	All-Phase Environmental Consultants
AMS	Air Monitoring Specialist
CABI	Colorado Asbestos Building Inspector
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
CFCs	Chlorofluorocarbons
CFR	Code of Federal Regulations
EP	Environmental Professional
EPA	Environmental Protection Agency
FAA	Flame Atomic Absorption
LBP	Lead Based Paint
LCP	Lead Containing Paint
mg/L	Milligrams per Liter
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PD	Project Designer
PEL	Permissible Exposure Limits
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
ppm	Parts Per Million
RACM	Regulated Asbestos Containing Material
RBM	Regulated Building Materials
RCRA	Resource Conservation and Recovery Act
RHMs	Recognized Hazardous Materials
SSAP	Structure Survey Assessment Plan
TC	Toxicity Characteristic
TCLP	Toxicity Characteristic Leaching Procedure
USEPA	U.S. Environmental Protection Agency
UWR	EPA Universal Waste Rule

LIST OF SAMPLING ACRONYMS/ABBREVIATIONS

BM	Brick/Mortar
CB	Cove Base
CC	Concrete
CER	Ceramic Block
CM	Ceramic Tile/Mortar
CMU	Concrete Masonry Unit/Mortar
CP	Carpet
CT	Ceiling Tile
D	Drywall (no surfacing)
DJ	Drywall/Joint Compound
F	Flooring
FT	Floor Tile
IN	Insulation
L	Linoleum
M	Mastic
MF	Multiple layered Flooring
MT	Mortar
PC	Popcorn Ceiling
PL	Plaster
PM	Panel/Mastic
R	Roofing
RF	Roof Flashing
S	Siding
ST	Stucco
T	Texture (no substrate)
TC	Textured Composite Board
TD	Textured Drywall
TSI	Thermal System Insulation
VB	Vapor Barrier
VP	Vent Paste (heating/cooling systems)
VW	Vent Wrap (heating/cooling systems)
WC	Window Caulk
WD	Wallpapered Drywall

Tables

Table 1	Project Details
Table 2	Asbestos Containing Samples
Table 3	Non-Asbestos Containing Samples
Table 4	Summary of Paint Chip Laboratory Analysis for Lead
Table 5	Summary of Regulated Building Materials

Figures

Figure 1	Site Location
Figure 2	Asbestos Bulk Sample Locations
Figure 3	Lead-Based Paint Sample Locations
Figure 4	Regulated Building Materials

Appendices

Appendix A	Asbestos and Lead Inspector (s) Certifications
Appendix B	Positive Asbestos & Lead Sample Material Photographs
Appendix C	Laboratory Results & Chain of Custody – Asbestos
Appendix D	Laboratory Results & Chain of Custody – Lead & TCLP

APEC Project # 18-3066 - 008

Prepared for

Kiewit Meridiam Partners

Prepared by



Logan Greenfield, CABI & AMS #20715
VP of Field Services

Reviewed by



Brandice Eslinger, EP, CABI & PD # 5494
President

1 Introduction

All-Phase Environmental Consultants, Inc. (APEC) was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building materials (RBM) at 4618 High Street, Denver, Colorado. This survey will identify materials that will need to be abated or removed prior to the future demolition activities.

Table 1 Project Details

Client Name:	Kiewit Meridiam Partners
Site Location:	4618 High St., Denver, CO 80216
Building Type	Single family residence and 3 out buildings
Building Size	Building is approximately 733 square feet
Construction Date:	1886 – Based on City and County of Denver Assessor’s Records
Building Uses:	Residential
Types of Materials to be Disturbed/Description of Proposed Disturbances:	Client intends to demolish the structure. All building materials will be impacted.

This Structure Survey Assessment was conducted as part of the Central 70 Project located in Denver, Colorado. This assessment was conducted in accordance with the Structure Survey Assessment Plan (SSAP), dated March 27, 2018. The SSAP, as defined in Section 23.13.2 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between Colorado Department of Transportation (CDOT) and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other Recognized Hazardous Materials (RHMs), as defined by the Resource Conservation and Recovery Act (RCRA); universal waste, as defined by the U.S. Environmental Protection Agency (EPA) and 6 CCR Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On May 10 and August 2, 2018, APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at 4618 High St., Denver, CO 80216. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the U.S. EPA Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 Code of Federal Regulations (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs was performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording each sample on a chain of custody, taking a photo of the sample and recording the location on a site diagram. Demolition work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by the Occupational Safety and Health Administration (OSHA), the EPA, the Colorado Department of Public Health and Environment (CDPHE) and the Denver County Health Department. All samples were collected and submitted to EMSL Analytical, Inc. in Denver, CO per APEC chain of custody protocol. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP) and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

This inspection report and methodology complies with the CDPHE Asbestos Sampling and Report Requirements Memorandum dated February 28, 2018.

2.2 LEAD-BASED PAINT SURVEY

On May 10, 2018, APEC certified personnel Rick Ralston conducted the LBP survey. The lead survey was conducted to evaluate the absence and/or presence of LBP or lead-containing paint (LCP) that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method was the use of a heat gun and/or scraping a portion of the paint to the substrate (material under the paint). Proper Chain of Custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Cinnaminson, NJ, via Fed Ex. The samples were analyzed by total lead (percent by weight) via Flame Atomic Absorption (FAA) by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association's Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm²) as measured with an X-ray fluorescence (XRF) or 5,000 parts per million (ppm) when measured by weight, or 0.5 percent (%) by weight.

A total of 16 homogeneous paint color variations of suspect LBP areas were identified. One paint chip sample was collected from each suspect homogeneous area and submitted to the laboratory for analysis. Representative photographs of LBP and LCP were taken and are included in a photographic log (Appendix B). The paint chip sample locations were recorded and are included on the sample location drawing (Figure 3). Descriptions of the suspect homogeneous materials and a list of the collected samples are described in the 'Findings' section.

Based on the analytical results for the 16 samples taken, a Toxicity Characteristic Leachate Procedure (TCLP) sample was analyzed by collecting a representative sample (approximately 105 grams) of combined suspect building materials. The sample results are located in Appendix D.

2.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

On May 10, 2018, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA Universal Waste Rule (UWR) requirements (40 CFR, Part 273). APECs inventory review consisted of the following: potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing PCBs (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The survey of suspected RBMs are for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

Although not a “regulated material”, items such as gas meters, electrical meters and electrical panels are listed with the RBM inventory. These materials will require removal and/or disconnection prior to demolition and until done so should be handled with care.

3 Findings

3.1 ASBESTOS SURVEY

A total of 43 bulk samples, including 2 duplicate sample, were collected from 12 suspect homogeneous materials throughout the structure, and the results of the PLM analysis are presented in Table 2 and table 3. The following samples were positive for ACMs (i.e. present greater than 1%):

Regulated Asbestos Containing Materials (RACM)

- 4618H-R10-1A, 4618H-R9-1B, 4618H-R8-1C, 4618H-R5-1D, 4618H-R6-1E, 4618H-R1-1F, and 4618H-R2-1G – Textured drywall – Walls in rooms 1, 2, 4, 5, 6, 7, 8, 9, and 10; Ceiling of room 2
- 4618H-R9-4A, 4618H-R10-4B, 4618H-R6-4C, 4618H-R6-4Q, 4618H-R5-4D, and 4618H-R1-4E – Hand textured drywall – Ceilings in rooms 1, 4, 5, 6, 7, 8, 9, and 10
- 4618H-R6-8A, 4618H-R1-8B, and 4618H-R5-8C– Vent wrap – supply ducts in rooms 1, 5, and 6

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point count results were not needed because the initial results did not exceed 1% asbestos. The laboratory analytical report is included as Appendix C.

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2 or Table 3. Two samples, 4618H-R6-4Q and 4618H-HEX-12Q, were collected because a total of 41 samples were obtained.

3.2 LEAD-BASED PAINT SURVEY

A total of 16 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 4, Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). Caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

Two lead samples (4618H-4L and 4618H-10L) were found to be greater than 0.06% by weight and less than 0.5% by weight and are considered LCP. Two samples (4618H-14L & 4618H-15L) had lead concentrations greater than 0.5% by weight and is considered LBP (Table 4). The remaining 12 samples were less than the LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

Since multiple samples analyzed as a LCP and LBP, TCLP analysis of lead was performed. TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP analysis was performed for landfill compliance. The Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is <0.40 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix D.

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. The following non-regulated hazardous building materials were identified at the property: water heater, refrigerator, gas main, electrical breaker box, furnace, water meter, and electrical meter. Although these items are non-regulated, they will need to be removed prior to demolition. A complete list of the RBMs is presented in Table 5, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

Approximately 3,129 square feet of RACM was identified as surfacing material on walls and ceilings in rooms 1, 2, 4, 5, 6, 7, 8, 9, and 10 and approximately 9 square feet of RACM vent wrap was observed on 3 supply register vents. These materials will require abatement due to being rendered friable easily prior to demolition of the structures.

No other ACM was identified throughout the structures; however, if additional suspect materials, not sampled during this investigation, are identified during demolition, they should either be assumed to be ACM or should be sampled prior to disturbance.

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos.

According to AHERA, EPA, and the CDPHE, materials testing at less than or equal to 1% asbestos fibers are not considered to be an ACM. However, any materials containing asbestos still need to be regulated. OSHA protocol must be followed when handling materials containing any amount of asbestos. Proper personal protective equipment (PPE) and engineering controls must be utilized if these materials will be impacted during demolition activities.

4.2 LEAD-BASED PAINT

Lead was detected at concentrations above the LCP threshold in 2 of the 16 samples, and above the LBP threshold in 2 of the 16 samples. The remaining 12 samples are considered non-lead containing (NLC). Although LCP/LBP was identified in the samples analyzed, the TC limit of 5 mg/L was not exceeded in the TCLP lead analysis. TCLP results confirmed that the waste stream is not hazardous with respect to lead content. No lead abatement is required prior to demolition.

While the TCLP results indicate that the waste stream is not characteristically hazardous with respect to lead content, LCP and LBP are still present in the building materials. Therefore, the contractor responsible for demolition of this structure is notified with receipt of this report of the presence or potential presence of LCP and/or LBP in the building materials that comprise the building. The contractor should also notify their employees of the presence of LCP or LBP prior to any disturbance and make the US Department of Labor OSHA publication number 3142-12R 2004 available to their workers (“Lead in Construction”, <http://www.osha.gov/Publications/osha3142.pdf>). The standards address topics such as permissible exposure limits (PELs) for workers, exposure assessment, protection of employees during assessment of exposure, employee notification, personal protective equipment (PPE), medical surveillance, along with other topics related to working with LCP and LBP.

4.3 REGULATED BUILDING MATERIALS

Materials found during the regulated materials inventory within the building may require special handling or disposal prior to demolition activities. If abatement is needed, APEC recommends that the asbestos contractor or general contractor selected by the client properly dispose of these regulated materials, per applicable regulations.

With regards to RBMs, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufacturer's label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacturer's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon, which will need to be reclaimed or taken to a facility capable of this activity. Mercury containing thermostats will need to be disposed of at a facility certified to take this type of material. The contractor should also carefully remove all associated fluorescent light tubes and compact fluorescent lights and recycle or dispose of these materials according to applicable regulations.

This inspection was primarily relevant to the Federal UWR requirements under 40 CFR 273. It should be noted that contractors submitting bids for removal of the RBMs should verify quantities, conditions, and locations of all RBMs prior to bid submittals and initiating demolition activities. The contractor is also responsible for proper recycling and/or disposal of the RBMs, and should follow all federal, state and local regulations when handling these materials.

5 Limitations

This Structure Survey Assessment Report was prepared by All-Phase Environmental Consultants, Inc., at the request of and for the sole benefit of Kiewit Meridiam Partners, or any entity controlling, controlled by, or under common control with Colorado Department of Transportation. APECs certified inspectors used reasonable diligence and professional judgement to identify all suspect asbestos-containing materials, lead based paint, and regulated building materials in the property. APEC will not be held liable for property damage or any loss of property value due to the inspection. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

APEC utilized destructive inspection methods in performing this survey, however accessibility may have been a limiting condition. If additional impacted suspect materials are discovered during related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos, lead or other regulated materials; or assume the material(s) to be containing, quantify and remove on a unit cost basis.

Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

Tables

Table 2	Asbestos Containing Samples
Table 3	Non-Asbestos Containing Samples
Table 4	Summary of Paint Chip Laboratory Analysis for Lead
Table 5	Summary of Regulated Building Materials

Table 2 Positive Asbestos Containing Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4618H-R10-1A	ROOM 10	TEXTURE 2% CHRYSOTILE	PLM	Good	TEXTURED DRYWALL	WALLS OF ROOMS 1,2,4,5,6,7,8,9 &10 CEILING OF ROOM 2	RACM	2214
4618H-R9-1B	ROOM 9	TEXTURE 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R8-1C	ROOM 8	TEXTURE 3% CHRYSOTILE	PLM	Good			RACM	
4618H-R5-1D	ROOM 5	TEXTURE 2 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-1E 4618H-R1-1F 4618H-R2-1G	ROOM 6 ROOM 1 ROOM 2	Homogeneous to Samples 4618H-R10-1A, 4618H-R9-1B, 4618H-R8-1C & 4618H-R5-1D						
4618H-R9-4A	ROOM 9	TEXTURE 2% CHRYSOTILE	PLM	Good	HAND TEXTURED DRYWALL	CEILINGS OF 1,4,5,6,7,8,9 &10	RACM	915
4618H-R10-4B	ROOM 10	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-4C	ROOM 6	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-4Q	ROOM 6	TEXTURE 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R5-4D	ROOM 5	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R1-4E	ROOM 1	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-8A	ROOM 6	VENT WRAP 35%CHRYSOTILE	PLM	Good	VENT WRAP	SUPPLY DUCT REGISTERS	RACM	9
4618H-R1-8B	ROOM 1	VENT WRAP 75%CHRYSOTILE	PLM	Good			RACM	
4618H-R5-8C	ROOM 5	VENT WRAP 80%CHRYSOTILE	PLM	Good			RACM	

ND=Non-Detect PLM=Polarized Light Microscopy
 NA=Not Applicable
 RACM=Regulated Asbestos Containing Materials

Table 3 Non-Asbestos Containing Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification		
4618H-R3-2A	ROOM 3	ND	PLM	Good	SMOOTH TEXTURED DRYWALL	WALLS AND CEILINGS OF ROOM 3 AND STAIRWELL	NA		
4618H-R3-2B		ND	PLM	Good			NA		
4618H-R3-2C		ND	PLM	Good			NA		
4618H-R10-3A	ROOM 10	ND	PLM	Good	TEXTURED PLASTER	WALLS OF ROOMS 1,2,4,5,6,7,8,9 &10	NA		
4618H-R9-3B	ROOM 9	ND	PLM	Good			NA		
4618H-R6-3C	ROOM 6	ND	PLM	Good			NA		
4618H-R6-3D		ND	PLM	Good			NA		
4618H-R5-3E	ROOM 5	ND	PLM	Good			NA		
4618H-R1-3F	ROOM 1	ND	PLM	Good			NA		
4618H-R1-3G		ND	PLM	Good			NA		
4618H-R2-5A	ROOM 2	ND	PLM	Good			LINOLEUM	FLOOR OF ROOM 2	NA
4618H-R2-5B		ND	PLM	Good					NA
4618H-B-6A	BASEMENT	ND	PLM	Good	SMOOTH TEXTURED DRYWALL	WALLS OF BASEMENT	NA		
4618H-B-6B		ND	PLM	Good			NA		
4618H-B-6C		ND	PLM	Good			NA		
4618H-B-7A	BASEMENT	ND	PLM	DAMAGED	PAPER BARRIER	BETWEEN HVAC	NA		
4618H-B-7B		ND	PLM				NA		
4618H-S2-9A	SHED 2	ND	PLM	Good	STUCCO ON ADOBE SHED EAST OF HOUSE	EXTERIOR OF SHED 2	NA		
4618H-S2-9B		ND	PLM	Good			NA		
4618H-S2-9C		ND	PLM	Good			NA		

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4618H-HEX-10A	EXTERIOR	ND	PLM	Good	VAPOR BARRIER	EXTERIOR OF HOUSE	NA
4618H-HEX-10B		ND	PLM	Good			NA
4618H-S1-11A	SHED 1	ND	PLM	Good	SHINGLE SIDING	EXTERIOR OF SHED 1	NA
4618H-S1-11B		ND	PLM	Good			NA
4618H-HEX-12A	EXTERIOR	ND	PLM	Good	ROOFING	ROOF OF HOUSE	NA
4618H-HEX-12Q		ND	PLM	Good			NA
4618H-HEX-12B		ND	PLM	Good			NA

ND=Non-Detect
 PLM=Polarized Light Microscopy
 NA=Not Applicable

Table 4 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4618H-1L	Room 10	<0.0080	Drywall	Gray	NLC
4618H-2L	Room 10	<0.0080	Drywall	Lime Green	NLC
4618H-3L	Room 10	<0.0080	Drywall	Dark Blue	NLC
4618H-4L	Room 10	0.38	Plaster	Mint Green	LCP
4618H-5L	Room 1	<0.0080	Drywall	Gray/Orange	NLC
4618H-6L	Room 8	<0.0080	Drywall	White/Silver	NLC
4618H-7L	Door Separating Room 10 & Room 8	<0.0099	Wood	Brown	NLC
4618H-8L	Room 2	<0.0080	Drywall	Green	NLC
4618H-9L	R10	<0.0080	Drywall	White	NLC
4618H-10L	Room 5	0.31	Plaster	Pink	LCP
4618H-11L	Room 11-Basement	<0.0080	Drywall	White	NLC
4618H-12L	Exterior	0.017	Brick	Maroon	NLC
4618H-13L	Exterior	<0.0080	Wood	White	NLC
4618H-14L	Exterior	0.77	Wood	Blue	LBP
4618H-15L	Exterior	0.78	Wood	Purple	LBP
4618H-16L	Exterior	<0.0080	Pipe-Metal	Black	NLC

Table 5 Summary of Regulated Building Materials

Room	Material	Location	Quantity Fixture/Bulbs each
Room 6	Refrigerator	North Side	1
Baement	Furance	West End of North Room	1
Baement	Water Heater	West End of North Room	1
Room 6	Window AC	South Side	1
Exterior	Electrical Meter	East Side of House	1
Exterior	Breaker Box	East Side of House	1
Exterior	Gas Meter	South Side of House	1
Exterior	Water Meter	West End of House	1
Exterior	Street Light Pole	West End of House	1

Figures

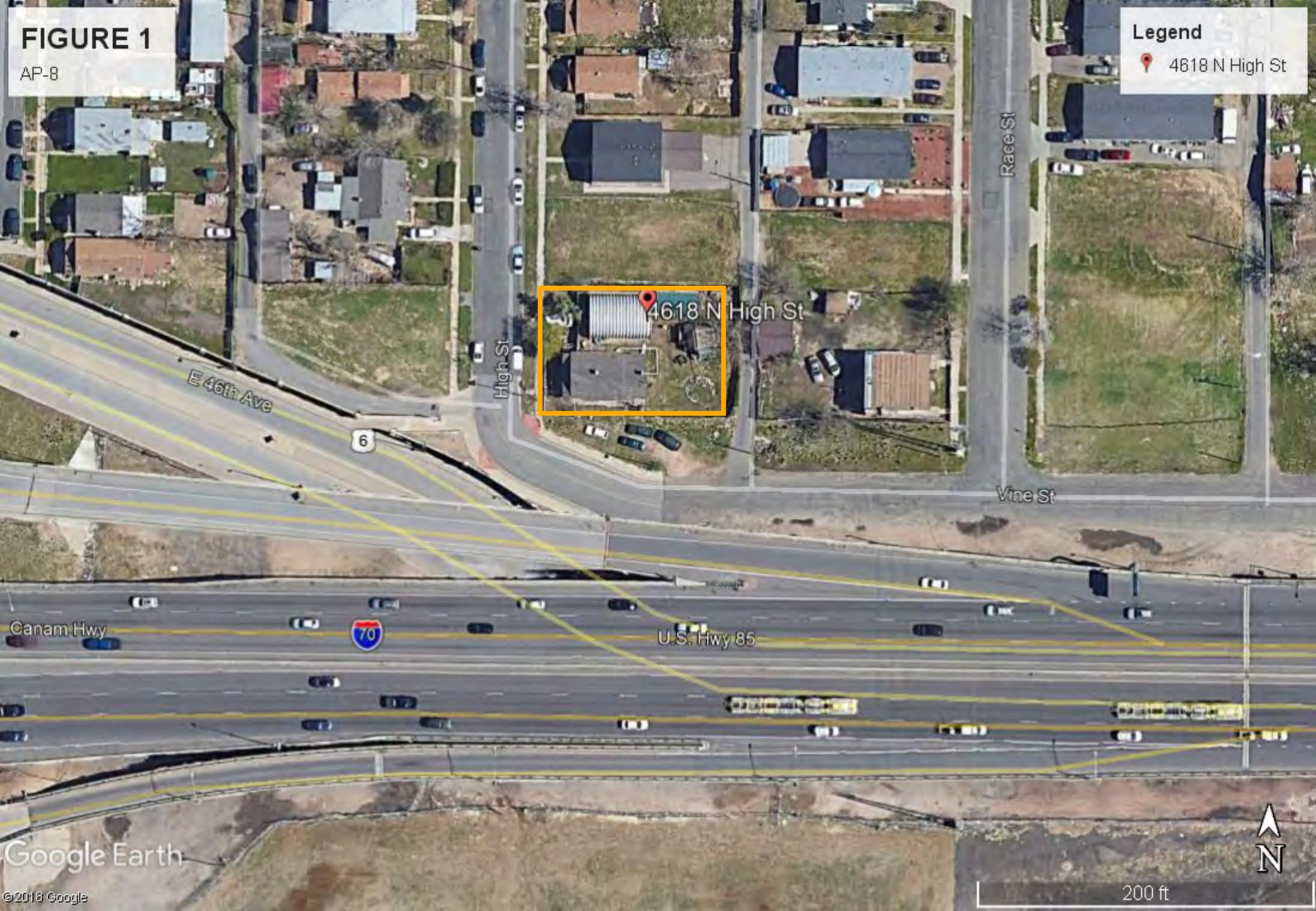
- Figure 1 Site Location
- Figure 2 Asbestos Bulk Sample Locations
- Figure 3 Lead-Based Paint Sample Locations
- Figure 4 Regulated Building Materials

FIGURE 1

AP-8

Legend

 4618 N High St



4618 N High St

E 46th Ave

High St

Race St

Vine St

6

70

Canam Hwy

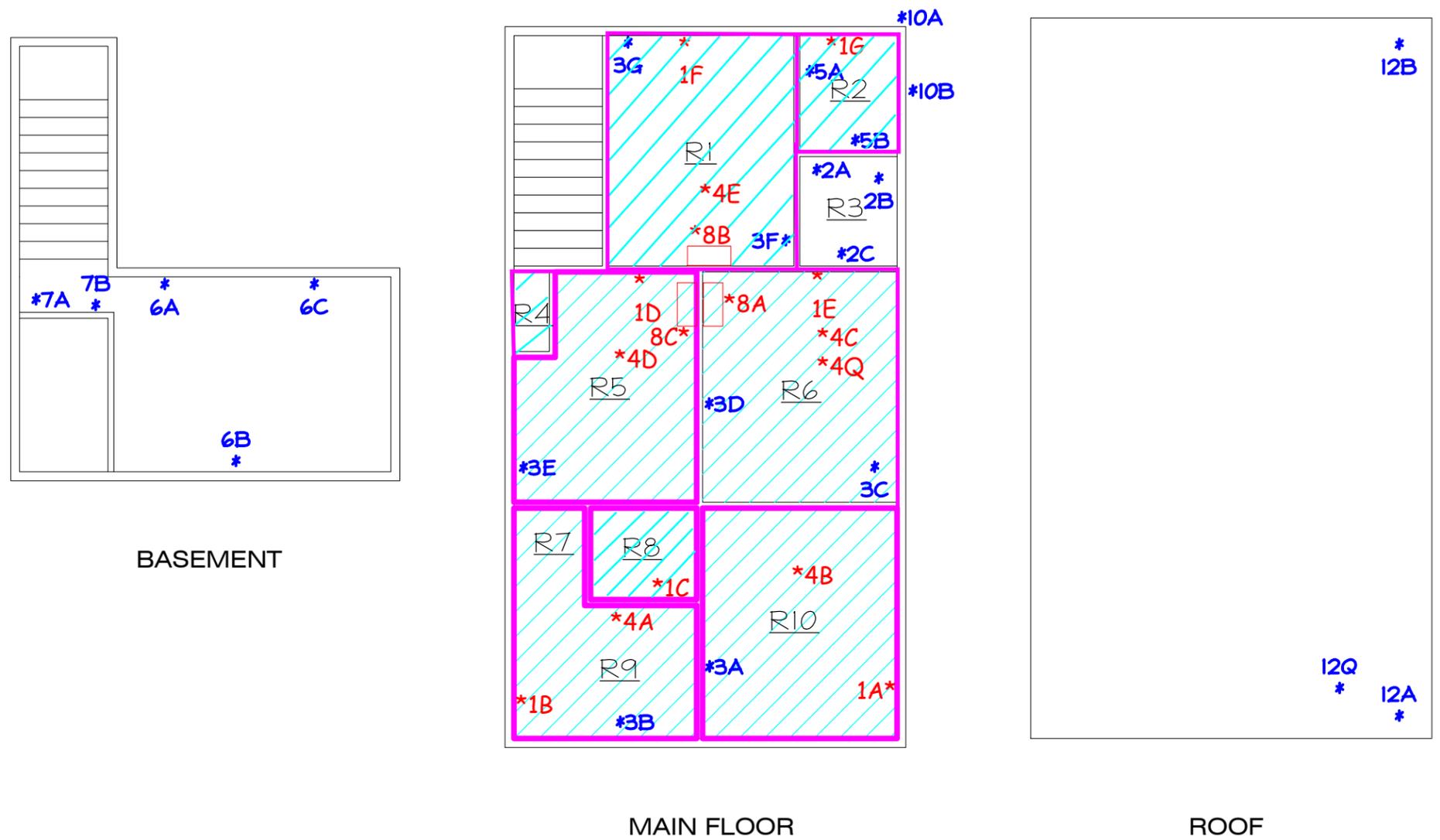
U.S. Hwy 85

Google Earth

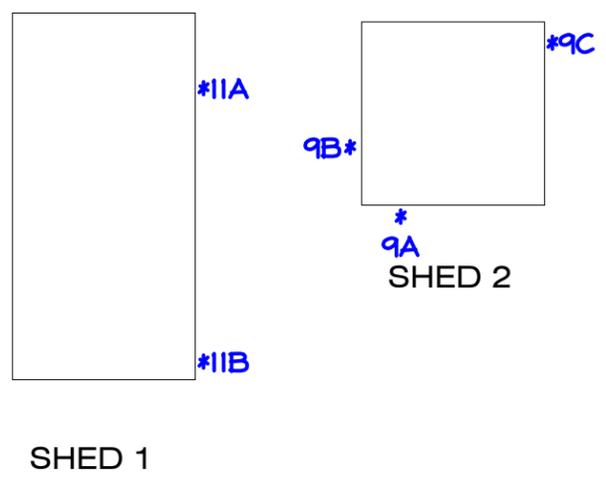
©2018 Google



200 ft



-  = Positive Asbestos at Ceiling
-  = Positive Asbestos at Walls
- R1 = Room Numbers
- *4B = Asbestos Samples (Detect)
- 4B = Asbestos Samples (Non-Detect)
-  = Vent Boot Wrap Positive for Asbestos

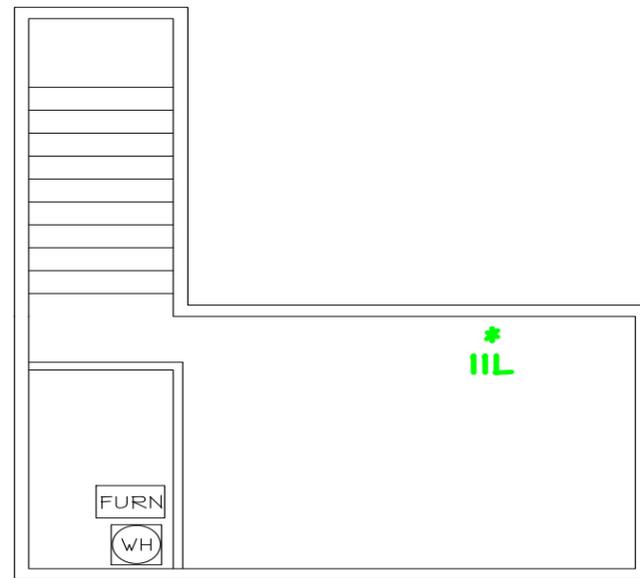


DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

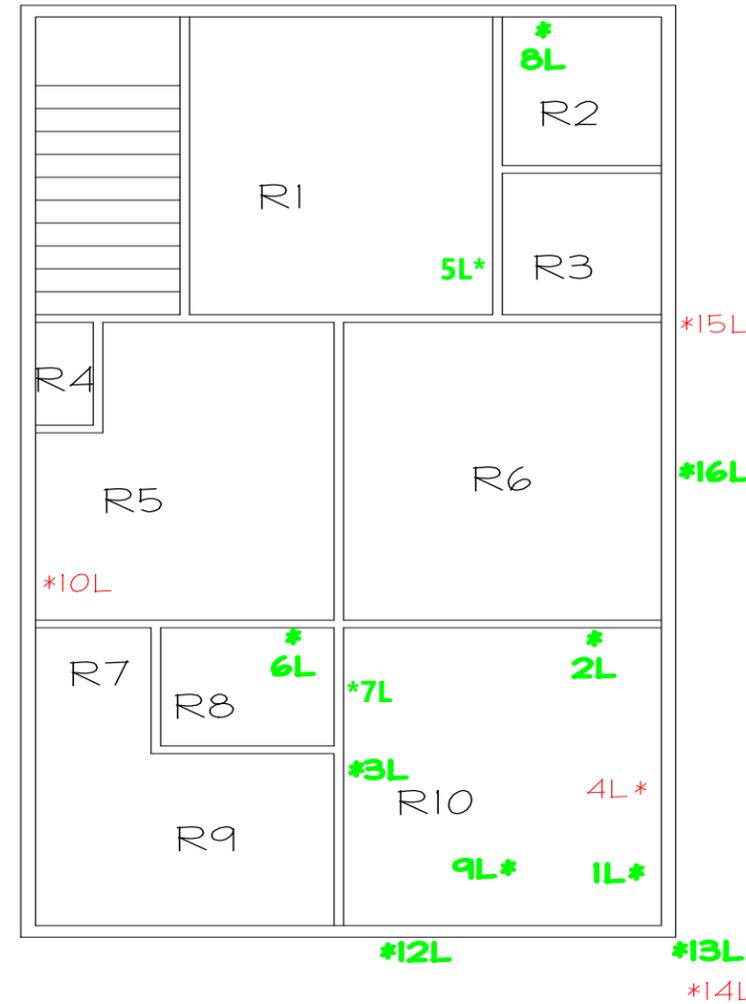
FIGURE 2 - Asbestos Bulk Sample Locations
 CENTRAL 70 - Structure Survey Assessment Map
 AP-8
 4618 High St., Denver, CO
 May 10, 2018
 APEC #: 18-3066



ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375



BASEMENT



MAIN FLOOR

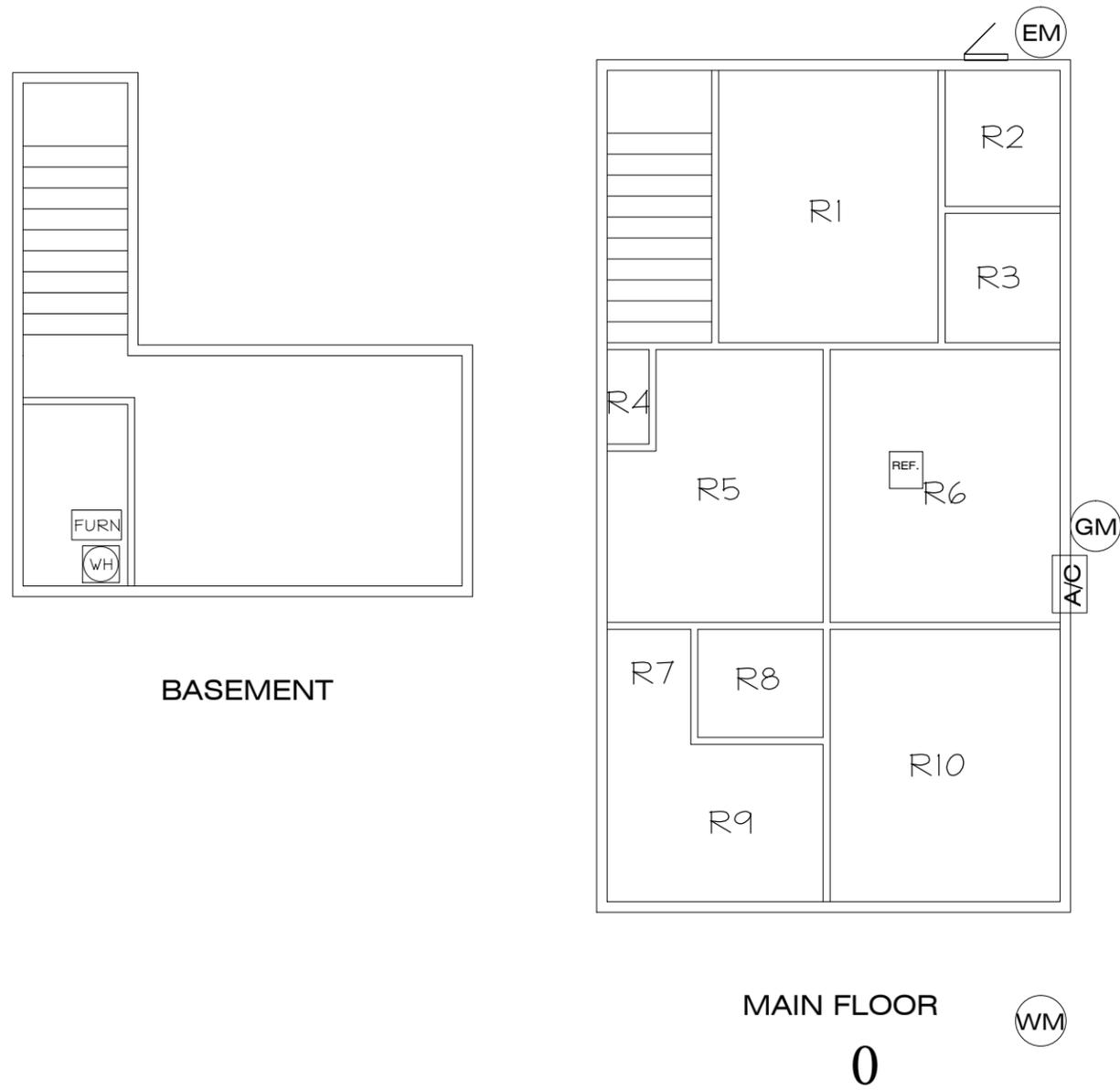


DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

- R1 = Room Numbers
- 4 = Lead Base Paint (Detect)
- 4 = Lead Containing Paint (Detect)
- 4 = Lead Base Paint (Non-Detect)

FIGURE 3 - Lead-Based Paint Sample Locations
 CENTRAL 70 - Structure Survey Assessment Map
 AP-8
 4618 High St., Denver, CO
 May 10, 2018
 APEC #: 18-3066

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 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

- R1 = Room Numbers
- EM = Electrical Meter
- GM = Gas Meter
- ∟ = Breaker Panel
- WM = Water Meter
- 0 = Street light pole
- WH = Water Heater
- FURN = Furnace
- A/C = Window Air Conditioning Unit
- REF = Refrigerator

FIGURE 4 - Regulated Building Materials
 CENTRAL 70 - Structure Survey Assessment Map
AP-8
 4618 High St., Denver, CO
 May 10, 2018
 APEC #: 18-3066



ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375

A

**ASBESTOS AND LEAD
CERTIFICATIONS**





Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

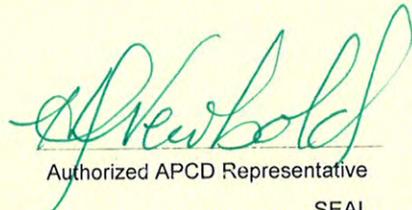
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: October 18, 2017

Expires: October 18, 2018

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative
SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Logan Greenfield

20715

*Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course
Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.*

BUILDING INSPECTOR

Course Date: September 20, 2017
Certificate No.: R17-1661-AI-CO
No. of Hours: 4
Expiration Date: September 20, 2018
Certification not valid without watermark

A handwritten signature in black ink that reads "Frank Hulce".

Frank Hulce - Instructor

A handwritten signature in black ink that reads "Danaya Benedetto".

Danaya Benedetto- Training Program Manager



Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

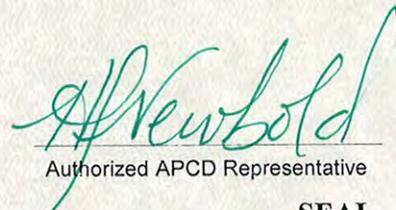
has met the requirements of 25-7-1104, C.R.S. and Air Quality Control
Commission Regulation No. 19, and is hereby certified by the state of
Colorado in the following discipline:

Risk Assessor*

Issued: February 10, 2017

Expires: February 10, 2019

** This certificate is valid only with the possession of a valid
lead-based paint training certificate in the discipline specified
above, issued by either a Colorado approved training provider,
an EPA approved training provider, or a training provider
approved by another EPA authorized program.*


Authorized APCD Representative

SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Richard Ralston

Has successfully completed the required training hours and passed the examination required by the Colorado Department of Public Health and Environment for:

Lead-Based Paint Risk Assessor Refresher

For the purposes of accreditation under the Colorado Department of Public Health and Environment Regulation No. 19 and other standard developed by EPA pursuant to Title IV of TSCA

Course Date: April 6, 2016
Certificate No.: R16-031-LRA-CO
No. of Hours: 8
Expiration Date: April 6, 2019

Certification not valid without watermark

Luis E. Peon

Luis Peon - Instructor

Danaya Benedetto

Danaya Benedetto - Training Program Manager

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.
Denver, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2018-04-01 through 2019-03-31

Effective Dates

A handwritten signature in black ink, appearing to read 'Dana S. Haman'.

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|---|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: September 01, 2018 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**

Issue Date: 08/31/2016

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description <i>(for internal methods only)</i>
Paint		EPA SW-846 3050B	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wipes		EPA SW-846 3050B	
		EPA SW-846 7000B	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

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ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

B

POSITIVE ASBESTOS & LEAD
SAMPLE MATERIAL
PHOTOGRAPHS





Textured Drywall

Samples Represented –
4618H-R10-1A
4618H-R9-1B
4618H-R8-1C
4618H-R5-1D
4618H-R6-1E
4618H-R1-1F
4618H-R2-1G



Hand Textured Drywall

Samples Represented –
4618H-R9-4A
4618H-R10-4B
4618H-R6-4C
4618H-R6-4Q
4618H-R5-4D
4618H-R1-4E



Vent Wrap

Samples Represented –
4618H-R6-8A
4618H-R1-8B
4618H-R1-8C



Mint Green-LCP

Sample Represented –
4618H-4L



Pink-LCP

Sample Represented –
4618H-10L



Blue-LBP

Sample Represented –
4618H-14L



15 Purple-LBP

Sample Represented –
4618H-15L

C

LABORATORY RESULTS &
CHAIN OF CUSTODY -
ASBESTOS





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EMSL Order: 221803357
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
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Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/14/2018 9:40 AM
Analysis Date: 05/16/2018 - 05/18/2018
Collected Date: 05/10/2018
Project: 18-3066-C70-AP-8 (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R10-1A-Texture 221803357-0001	Textured Drywall	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R10-1A-Drywall 221803357-0001A	Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R9-1B-Texture 1 221803357-0002	Textured Drywall	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R9-1B-Texture 2 221803357-0002A	Textured Drywall	White/Red/Yellow Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R9-1B-Tape 221803357-0002B	Textured Drywall	Yellow Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-R9-1B-Joint Compound 221803357-0002C	Textured Drywall	White Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
4618H-R9-1B-Drywall 221803357-0002D	Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R8-1C-Texture 221803357-0003	Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 82% Non-fibrous (Other)	3% Chrysotile
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R8-1C-Dryw all 221803357-0003A	Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R5-1D-Textu re 1 221803357-0004	Textured Drywall	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R5-1D-Textu re 2 221803357-0004A	Textured Drywall	White/Blue Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R5-1D-Tape 221803357-0004B	Textured Drywall	Yellow Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-R5-1D-Joint Compound 221803357-0004C	Textured Drywall	White Non-Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
4618H-R5-1D-Dryw all 221803357-0004D	Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R6-1E-Textur e 1 221803357-0005	Textured Drywall	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R6-1E-Textur e 2 221803357-0005A	Textured Drywall	Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R6-1E-Dryw all 221803357-0005B	Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R1-1F-Textur e 221803357-0006	Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R1-1F-Dryw all 221803357-0006A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
4618H-R2-1G-Textu re 221803357-0007	Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R2-1G-Dryw all 221803357-0007A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
4618H-R3-2A-Dryw all 221803357-0008	Smooth Textured Drywall	White/Beige Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R3-2B-Dryw all 221803357-0009	Smooth Textured Drywall	Beige Fibrous Heterogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R3-2C-Dryw all 221803357-0010	Smooth Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R10-3A-Skim Coat 221803357-0011	Textured Plaster	White/Green Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R10-3A-Plaster 221803357-0011A	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-R9-3B-Skim Coat 221803357-0012	Textured Plaster	White/Green Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R9-3B-Plaster 221803357-0012A	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-R6-3C-Skim Coat 221803357-0013	Textured Plaster	White/Green Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R6-3C-Plaster 221803357-0013A	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-R6-3D-Skim Coat 221803357-0014	Textured Plaster	White/Green Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R6-3D-Plaster 221803357-0014A	Textured Plaster	Beige Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-R5-3E-Skim Coat 221803357-0015	Textured Plaster	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R5-3E-Plaster 221803357-0015A	Textured Plaster	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R1-3F-Skim Coat 221803357-0016	Textured Plaster	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-R1-3F-Plaster 221803357-0016A	Textured Plaster	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-R1-3G-Skim Coat 221803357-0017	Textured Plaster	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-R1-3G-Plaster 221803357-0017A	Textured Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-R9-4A-Texture 221803357-0018	Hand Textured Drywall	Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R9-4A-Drywall 221803357-0018A	Hand Textured Drywall	Beige Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R10-4B-Texture 221803357-0019	Hand Textured Drywall	White/Beige Non-Fibrous Heterogeneous		98% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R10-4B-Drywall 221803357-0019A	Hand Textured Drywall	White/Beige Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R6-4C-Texture 221803357-0020	Hand Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R6-4C-Drywall all 221803357-0020A	Hand Textured Drywall	White/Beige Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R6-4Q-Texture re 221803357-0021	Hand Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R6-4Q-Tape 221803357-0021A	Hand Textured Drywall	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-R6-4Q-Joint Compound 221803357-0021B	Hand Textured Drywall	White Non-Fibrous Homogeneous		15% Ca Carbonate 83% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R6-4Q-Drywall all 221803357-0021C	Hand Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R5-4D-Texture re 221803357-0022	Hand Textured Drywall	Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R5-4D-Drywall all 221803357-0022A	Hand Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-R1-4E-Texture e 221803357-0023	Hand Textured Drywall	Beige Non-Fibrous Heterogeneous		10% Ca Carbonate 88% Non-fibrous (Other)	2% Chrysotile
Inseparable paint / coating layer included in analysis					
4618H-R1-4E-Drywall all 221803357-0023A	Hand Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected

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Collected Date: 05/10/2018

Project: 18-3066-C70-AP-8 (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R2-5A-Linoleum 221803357-0024	Linoleum	Gray/White Fibrous Homogeneous	25% Cellulose 10% Glass	65% Non-fibrous (Other)	None Detected
4618H-R2-5A-Mastic 221803357-0024A	Linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-R2-5B-Linoleum 221803357-0025	Linoleum	Gray/Beige Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	None Detected
4618H-R2-5B-Mastic 221803357-0025A	Linoleum	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-B-6A-Texture 221803357-0026	Smooth Textured Drywall	White/Black Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4618H-B-6A-Tape 221803357-0026A	Smooth Textured Drywall	Yellow Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-B-6A-Joint Compound 221803357-0026B	Smooth Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4618H-B-6A-Drywall 221803357-0026C	Smooth Textured Drywall	White Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-B-6B-Texture 221803357-0027	Smooth Textured Drywall	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803357
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/14/2018 9:40 AM
Analysis Date: 05/16/2018 - 05/18/2018
Collected Date: 05/10/2018
Project: 18-3066-C70-AP-8 (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-B-6B-Tape 221803357-0027A	Smooth Textured Drywall	Yellow Non-Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-B-6B-Joint Compound 221803357-0027B	Smooth Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4618H-B-6B-Drywal l 221803357-0027C	Smooth Textured Drywall	White/Beige Fibrous Homogeneous	20% Cellulose	65% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-B-6C-Joint Compound 221803357-0028	Smooth Textured Drywall	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4618H-B-6C-Drywal l 221803357-0028A	Smooth Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4618H-B-7A 221803357-0029	Paper Barrier	Tan/Black Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
4618H-B-7B 221803357-0030	Paper Barrier	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (Other)	None Detected
4618H-R6-8A 221803357-0031	Vent Wrap	Beige Fibrous Homogeneous	55% Cellulose	10% Non-fibrous (Other)	35% Chrysotile
4618H-R1-8B 221803357-0032	Vent Wrap	Green/Beige Fibrous Homogeneous	15% Cellulose	10% Non-fibrous (Other)	75% Chrysotile
4618H-S2-9A 221803357-0033	Stucco	Gray/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803357
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-C70-AP-8 (CDOT)

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/14/2018 9:40 AM
Analysis Date: 05/16/2018 - 05/18/2018
Collected Date: 05/10/2018

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-S2-9B 221803357-0034	Stucco	Gray/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4618H-S2-9C 221803357-0035	Stucco	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4618H-HEX-10A 221803357-0036	Vapor Barrier	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected
4618H-HEX-10B 221803357-0037	Vapor Barrier	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (Other)	None Detected
4618H-S1-11A-Shin gle 221803357-0038	Shingle Siding	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4618H-S1-11A-Mast ic 221803357-0038A	Shingle Siding	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-S1-11B-Shin gle 221803357-0039	Shingle Siding	Gray/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4618H-S1-11B-Mast ic 221803357-0039A	Shingle Siding	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-HEX-12A-Shi ngle 221803357-0040	Roofing	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4618H-HEX-12A-Ma stic 221803357-0040A	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803357
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/14/2018 9:40 AM
Analysis Date: 05/16/2018 - 05/18/2018
Collected Date: 05/10/2018
Project: 18-3066-C70-AP-8 (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-HEX-12A-Tar Felt 221803357-0040B	Roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
4618H-HEX-12Q-Shi ngle 221803357-0041	Roofing	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4618H-HEX-12Q-Ma stic 221803357-0041A	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-HEX-12Q-Tar Felt 221803357-0041B	Roofing	Black Fibrous Homogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
4618H-HEX-12B-Shi ngle 221803357-0042	Roofing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4618H-HEX-12B-Ma stic 221803357-0042A	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4618H-HEX-12B-Tar Felt 221803357-0042B	Roofing	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221803357
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-C70-AP-8 (CDOT)

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 05/14/2018 9:40 AM
Analysis Date: 05/16/2018 - 05/18/2018
Collected Date: 05/10/2018

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 05/14/2018 Sample Receipt Time: 9:40 AM
Analysis Completed Date: 05/18/2018 Analysis Completed Time: 1:36 PM

Analyst(s):

Gentry Catlett PLM (19)

Molly Elkins PLM (9)

Timothy Kleehammer PLM (60)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/18/2018 14:02:59



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only)

221803357

Denver, CO 80204
PHONE (303) 740-5700
FAX (303) 741-1400

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3066-C70-AP-8		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4618H-R10-1A	Textured Drywall	---	5-10-18
4618H-R9-1B	↓	---	↓
4618H-R8-1C		---	
4618H-R5-1D		---	
4618H-R6-1E		---	
4618H-R1-1F		---	
4618H-R2-1G		---	
4618H-R3-2A	Smooth textured Drywall	---	↓

Client Sample # (s): - Total # of Samples: **42**

Relinquished (Client): [Signature] Date: _____ Time: _____

Received (Lab): [Signature] Date: 5/14/18 Time: 9:40 am

Comments/Special Instructions: EMFE 795173617993 2/5



Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Denver, CO 80204
PHONE (303) 740-5700
FAX (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4618H-R3-2B	Smooth textured Drywall	—	5-10-18
4618H-R3-2C	↓	—	↓
4618H-R10-3A	Textured Plaster	—	
4618H-R9-3B	↓	—	
4618H-R6-3C	↓	—	
4618H-R6-3D	↓	—	
4618H-R5-3E	↓	—	
4618H-R1-3F	↓	—	
4618H-R1-3G	↓	—	
4618H-R9-4A	Hand textured Drywall	—	
4618H-R10-4B	↓	—	
4618H-R6-4C	↓	—	
4618H-R6-4D	↓	—	
4618H-R5-4D	↓	—	
4618H-R1-4E	↓	—	
4618H-R2-5A	Linoleum	—	
4618H-R2-5B	↓	—	
4618H-B-6A	Smooth textured Drywall	—	
4618H-B-6B	↓	—	
4618H-B-6C	↓	—	
4618H-B-7A	Paper Barrier	—	
4618H-B-7B	↓	—	
4618H-R6-8A	Vent Wrap	—	
4618H-R1-8B	↓	—	
*Comments/Special Instructions:			



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221805958
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 08/02/2018 9:05 AM
Analysis Date: 08/03/2018
Collected Date: 08/02/2018
Project: 18-3066-CDOT-A-AP8

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4618H-R5-8C 221805958-0001	Vent Wrap	Tan/White Fibrous Homogeneous		20% Non-fibrous (Other)	80% Chrysotile

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 08/03/2018 12:27:59



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221805958
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-CDOT-A-AP8

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 08/02/2018 9:05 AM
Analysis Date: 08/03/2018
Collected Date: 08/02/2018

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	08/02/2018	Sample Receipt Time:	9:05 AM
Analysis Completed Date:	08/03/2018	Analysis Completed Time:	12:19 PM

Analyst(s):

Amanda Lang PLM (1)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 08/03/2018 12:27:59

8/3



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221805958

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (303) 741-1400

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3066-CDOT-A-AP8		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique

Check For Positive Stop - Clearly Identify Homogenous Group
 Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4618H-R5-8C	Vent wrap	—	8-2-18
 			

Client Sample # (s): - Total # of Samples: 1

Relinquished (Client): *[Signature]* Date: 8-2-18 Time: 9:05

Received (Lab): *[Signature]* Date: 8/2/18 Time: 9:05 AM

Comments/Special Instructions:
 W.I

D

LABORATORY RESULTS &
CHAIN OF CUSTODY -
LEAD & TCLP





EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201805190
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 05/14/18 10:30 AM
 Collected: 5/10/2018

Project: **18-3066-C70-L-AP-8**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
4618H-1L Site: R10- Gray	201805190-0001	5/10/2018	5/16/2018	0.2553 g	<0.0080 % wt
4618H-2L Site: R10- Lime Green	201805190-0002	5/10/2018	5/16/2018	0.2541 g	<0.0080 % wt
4618H-3L Site: R10- Dark Blue	201805190-0003	5/10/2018	5/16/2018	0.2588 g	<0.0080 % wt
4618H-4L Site: R10- Mint Green	201805190-0004	5/10/2018	5/16/2018	0.2598 g	0.38 % wt
4618H-5L Site: R1- Gray W/Orange	201805190-0005	5/10/2018	5/16/2018	0.2516 g	<0.0080 % wt
4618H-6L Site: R8- White/Silver	201805190-0006	5/10/2018	5/16/2018	0.2517 g	<0.0080 % wt
4618H-7L Site: R10/R8- Door- Brown	201805190-0007	5/10/2018	5/16/2018	0.2011 g	<0.0099 % wt
4618H-8L Site: R2- Green	201805190-0008	5/10/2018	5/16/2018	0.2535 g	<0.0080 % wt
4618H-9L Site: R10- White	201805190-0009	5/10/2018	5/16/2018	0.2517 g	<0.0080 % wt
4618H-10L Site: R5- Pink	201805190-0010	5/10/2018	5/16/2018	0.2530 g	0.31 % wt
4618H-11L Site: Basement- White	201805190-0011	5/10/2018	5/16/2018	0.2524 g	<0.0080 % wt
4618H-12L Site: Exterior- Maroon	201805190-0012	5/10/2018	5/16/2018	0.2536 g	0.017 % wt
4618H-13L Site: Exterior- White	201805190-0013	5/10/2018	5/16/2018	0.2531 g	<0.0080 % wt
4618H-14L Site: Exterior- Blue	201805190-0014	5/10/2018	5/16/2018	0.2518 g	0.77 % wt
4618H-15L Site: Exterior- Purple	201805190-0015	5/10/2018	5/16/2018	0.2555 g	0.78 % wt

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/17/2018 10:21:30



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201805190
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 05/14/18 10:30 AM
 Collected: 5/10/2018

Project: 18-3066-C70-L-AP-8

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
4618H-16L	201805190-0016	5/10/2018	5/16/2018	0.2534 g	<0.0080 % wt
Site: Exterior- Black					

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/17/2018 10:21:30



EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201805190

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company : All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party		
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: US	
Report To (Name): Richard Ralston		Telephone #: 719-545-0375		
Email Address: rick@allphaseenvironmental.com		Fax #:	Purchase Order:	
Project Name/Number: 18-3066-C70-L-AP-8		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: CO		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: Richards Ralston		Signature of Sampler: RRalston		
Sample #	Location	Volume/Area	Date/Time Sampled	
1 4618H-1L	R10 - Gray	—	5-10-18	
2 4618H-2L	R10 - Lime Green	—	↓	
Client Sample #s		Total # of Samples: 16		
Relinquished (Client):	<i>[Signature]</i>	Date: 5-11-18	Time: 520	
Received (Lab):	<i>[Signature]</i>	Date: 5/14/18	Time: 1030	
Comments: per logan analyze samples TCLP sample on hold pending results 5/14/18-cc				



EMSL ANALYTICAL, INC.
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LEAD (Pb) CHAIN OF CUSTODY
EMSL ORDER ID (Lab Use Only):

201805190

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled	
3 4618H-3L	R10 - Dark Blue	—	5-10-18	
4 4618H-4L	R10 - Mint Green	—	↓	
5 4618H-5L	R1 - Gray w/orange	—		
6 4618H-6L	R8 - White/silver	—		
7 4618H-7L	R10/R8 - Door - Brown	—		
8 4618H-8L	R2 - Green	—		
9 4618H-9L	R10 - White	—		
10 4618H-10L	R5 - Pink	—		
11 4618H-11L	Basement - White	—		
12 4618H-12L	Exterior - maroon	—		
13 4618H-13L	Exterior - White	—		
14 4618H-14L	Exterior - Blue	—		
15 4618H-15L	Exterior - Purple	—		
16 4618H-16L	Exterior - Black	—		

Comments/Special Instructions:

BillTo: All-Phase Environmental Consultants, Inc., 721 W. 9th Street, Pueblo, CO, 81003, US
Attention: Rick Ralston Phone: 719-641-6936 Email: rick@allphaseenvironmental.com Purchase Order:

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order:	201805607
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 05/23/18 2:55 PM
 Collected: 5/11/2018

Project: 18-3066-C70- T- AP- 14

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
4617 / 4625-T	201805607-0001	5/11/2018	5/29/2018	<0.40 mg/L
Site: Entire 2 Structures				

Phillip Worby, Lead Laboratory Manager
 or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

Initial report from 05/29/2018 11:55:52



EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201805607

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		<i>Third Party Billing requires written authorization from third party</i>	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: US
Report To (Name): Richard Ralston		Telephone #: 719-545-0375	
Email Address: rick@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3066-C70-T-AP-14		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: CO		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box checked, non-ASTM Wipe assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input checked="" type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Richard Ralston Signature of Sampler: R. Ralston

Sample #	Location	Volume/Area	Date/Time Sampled
① 4617/4625-T	Entire 2 Structures	—	5-11-18

Client Sample #s: - Total # of Samples: 1

Relinquished (Client): [Signature] Date: 5-11-18 Time: 537

Received (Lab): [Signature] Date: 5/14/18 Time: 1030 EMSL

Comments:
Bill To: All-Phase Environmental Consultants, Inc., 721 W. 9th Street, Pueblo, CO, 81003, US
Attention: Rick Ralston Phone: 719-641-6936 Email: rick@allphaseenvironmental.com Purchase Order:
per Logan only analyze if paint chip samples contain lead 5/14/18 -ck

per client analyze sample 5/23/18 255pm -ck

6b. Asbestos Abatement Project Design



**Foothills
Environmental, Inc.**

Industrial Hygiene, Safety & Environmental Services

(Version 1, 10/22/18)

**ASBESTOS ABATEMENT
PROJECT DESIGN**

SINGLE FAMILY RESIDENCE ABATEMENT PROJECT

**4618 N. HIGH STREET
DENVER, COLORADO 80216**

PREPARED FOR:

**JKS Industries, LLC
747 Sheridan Blvd., #9A
Lakewood, Colorado 80214**

October 22, 2018

FEI Project Number: AS18207-8

Prepared By:

Nicolas D. Vasquez, CDPHE Cert #22566
Foothills Environmental

Foothills Environmental, Inc.
11099 W. 8th Ave.
Lakewood, Colorado 80215
Phone: 303-232-2660

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1.0 Scope of Work

1.1 Materials Identified for Removal

The General Abatement Contractor (GAC) will be performing the removal of asbestos containing material(s) as indicated in the table below. This information was gathered from the inspection report prepared by All-Phase Environmental Consultants (APEC) dated August 16, 2018. A copy of the Inspection and this Project Design will be available onsite during the course of the project. The total amount of actual asbestos containing material to be removed is estimated to be greater than 160 sf/260 lf or the equivalent of a 55 gallon drum.

The following ACM was identified for removal prior to demolition:

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4618H-R10-1A	ROOM 10	TEXTURE 2% CHRYSOTILE	PLM	Good	TEXTURED DRYWALL	WALLS OF ROOMS 1,2,4,5,6,7,8,9 & 10 CEILING OF ROOM 2	RACM	2214
4618H-R9-1B	ROOM 9	TEXTURE 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R8-1C	ROOM 8	TEXTURE CHRYSOTILE 3%	PLM	Good			RACM	
4618H-R5-1D	ROOM 5	TEXTURE 2 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-1E 4618H-R1-1F 4618H-R2-1G	ROOM 6 ROOM 1 ROOM 2	Homogeneous to Samples 4618H-R10-1A, 4618H-R9-1B, 4618H-R8-1C & 4618H-R5-1D						
4618H-R9-4A	ROOM 9	TEXTURE 2% CHRYSOTILE	PLM	Good	HAND TEXTURED DRYWALL	CEILINGS OF 1,4,5,6,7,8,9 & 10	RACM	915
4618H-R10-4B	ROOM 10	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-4C	ROOM 6	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-4Q	ROOM 6	TEXTURE 2% CHRYSOTILE JOINT COMPOUND 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R5-4D	ROOM 5	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R1-4E	ROOM 1	TEXTURE 2% CHRYSOTILE	PLM	Good			RACM	
4618H-R6-8A	ROOM 6	VENT WRAP 35%CHRYSOTILE	PLM	Good	VENT WRAP	SUPPLY DUCT REGISTERS	RACM	9
4618H-R1-8B	ROOM 1	VENT WRAP 75%CHRYSOTILE	PLM	Good			RACM	
4618H-R5-8C	ROOM 5	VENT WRAP 80%CHRYSOTILE	PLM	Good			RACM	
ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable RACM=Regulated Asbestos Containing Materials								

Regulatory asbestos abatement notification and permit from the Colorado Department of Public Health and Environment (CDPHE) will be required for this project.

1.2 Schedule

The following schedule has been proposed for the project. Phasing and dates are included in Section 1.3, Sequence of Work.

Project Start Date: November 26, 2018
Project Completion Date: December 7, 2018

1.3 Sequence of Work

The following phasing plan has been developed for the abatement. This plan was submitted with the permit application which corresponds to the drawing attached in Appendix A.

- **Phase 1** Start: November 26, 2018
Finish: December 7, 2018

Abatement of textured drywall and vent wrap in all designated areas will be completed in one full containment.

1.4 Discussion of Removal Methods

All friable and non-friable asbestos-containing materials that will become friable, as well as asbestos contaminated materials that are located in the work area shall be removed from their installed locations inside a full containment and by utilizing wet removal methods and a combination of handheld tools.

Waste generated during removal will be gathered placed into 2 6ml thick properly labeled disposal bags while wet. Work will be accomplished using CDPHE certified supervisors and workers.

Work completion includes preparation of the work area, pre-clean activities, removal and disposal of all specified ACM from the premises, final cleaning of the work area, final visual inspection, lockdown, and final clearance monitoring. The project will be considered complete when all containments and work areas have passed clearance criteria.

The following types of containments will be used during the project followed by procedures for setup and dismantling:

Full Containments

The GAC shall conduct abatement activities in accordance with CDPHE Regulation No. 8 in the following mandatory sequence for full containment:

- 1) Install critical barriers (pursuant to subsection III.I, Critical Barrier Installation)
- 2) Establish negative pressure (pursuant to Regulation No. 8 subsection III.J, Air Cleaning and Negative Pressure Requirements)

Note: The removal of non-ACM building materials and components may only take place after negative air pressure is established in the containment work area(s).

- 3) Construct the decontamination area (pursuant to subsection III.K, Decontamination Area)
- 4) Pre-clean surfaces (pursuant to subsection III.L, Pre-cleaning of Surfaces)
- 5) Cover fixed objects (pursuant to subsection III.M, Covering Fixed Objects)

- 6) Construct the containment (pursuant to subsection III.N, Containment Components)
- 7) Conduct abatement (pursuant to subsection III.O, Abatement Methods)
- 8) Conduct final visual inspection (pursuant to paragraph III.P.1., Final Visual Inspection)
- 9) Conduct final clearance air monitoring (pursuant to paragraph III.P.3., Final Clearance Air Monitoring)
- 10) Conduct the tear-down (pursuant to subsection III.Q., Tear-down)

All waste from the project will be packaged in approved containers and transferred to an approved landfill for disposal. After successful air clearance of each containment the containment can be removed and all non-reusable containment materials will be packaged for disposal. Only visual clearance will be required to verify complete removal of window glazing compound.

2.0 Special Conditions

2.1 Regulatory Notification and Variances

The General Abatement Contractor, (GAC) will make any required notifications to Federal and State entities regulating their work as required by applicable rules, regulations, and standards. This includes, but is not limited, to the National Emission Standards for Hazardous Air Pollutants (NESHAP) notification [notice provided to the Colorado Department of Public Health and Environment (CDPHE) with permit application]. *The abatement contractor is responsible for quantifying amounts of ACM necessary to properly complete the project.*

2.2 Project Manager Requirement

Colorado Regulation No. 8 requires a Project Manager on all asbestos abatement projects in which the amount of friable ACM to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces. A Project Manager may be required for this project, unless a waiver is requested and granted by CDPHE.

2.3 Facility Occupancy Status

During abatement activities the building will not be occupied by the former tenants but may be visited by owner personnel as well as other tradesmen.

2.4 Site Security

Entry to the regulated asbestos work area is by permission only to authorized personnel. The perimeter of the work area may be monitored during abatement by a certified Air Monitoring Specialist (AMS). Only asbestos certified/licensed personnel employed by the GAC or federal or state regulatory agency personnel and the AMS will be allowed access to the work area. A logbook will be maintained at the entrance to the work area. Everyone who enters the work area must record name, affiliation, time in and time out for each entry.

2.5 Field Changes

Minor modifications to the project design are allowed. Minor changes include but are not limited to, relocation of negative air machines, decontamination facility and waste load-out.

Any modifications to the project design must be approved by the Project Designer before the changes are made.

3.0 Project Design

3.1 Standards and Primacy of Rules

The following standards will be adopted as they pertain to asbestos abatement. In any instance where adopted standards are in conflict with each other, the most stringent shall apply.

- 1) Colorado Department of Public Health and Environment Regulation #8
- 2) 5CCR 1000-10 Part B asbestos handling, transportation, and storage
- 3) 29 CFR 1926.1101, the OSHA Construction Industry Asbestos Standard
- 4) 40 CFR 61 Subpart M, EPA's NESHAP Asbestos Standard
- 5) NIOSH/OSHA/EPA –“Occupational; Safety & Health Guidance Manual for Hazardous Waste Site Activities”, Section 8-20; Heat Stress and Other Physiological Factors.
- 6) All other applicable laws, rules, and regulations, including but not limited to those relating to:
 - 7 Workers' Compensation Insurance;
 - 8 Liability Insurance
 - 9 All contract specifications and documentation

3.2 Site Access

The GAC has access to the facility for the purpose of abatement from 6:30 AM to 5:00 PM until project completion which is projected to be 12/7/18.

3.3 Utilities Service

Access to electrical power, water and sanitary sewer is not available inside the facility. The contractor will provide utility services during the duration of the project. Any temporary utility lines running to the regulated asbestos work area shall be adequately protected from damage and abrasion from vehicle and foot traffic. All waste water shall be filtered to five (5) microns prior to discharge into a sanitary sewer.

GAC will have to provide temporary restrooms located close to the project site at approved locations for the duration of the project (to be placed in a protected area if possible).

3.4 Decontamination Facilities & Load-Out Facilities

Personnel decontamination facilities shall consist of an Equipment (Dirty) Room, Shower, and a clean room constructed in accordance with Regulation #8 III.K Decontamination Unit. If waste load out is by direct load out, it shall consist of a direct waste loadout configuration that is currently approved by CDPHE (Configuration diagram approved by CDPHE shall be attached to this Project Design if used).

All load-out and disposal procedures shall be in accordance with applicable federal, state, and local regulations and project specifications.

3.5 Critical Barriers

All critical barriers will consist of a minimum 1 layer of 6mil poly critical barrier on all, openings, and vents.

3.6 Negative Pressure Ventilation

The GAC shall maintain a negative pressure differential of -0.02 inches of water in the work areas in accordance with Regulation #8 III.J Air cleaning and Negative Pressure Requirements, until final visual and clearance air monitoring complete. The calculations in the next section take into account at least 1 backup Negative Air Machine (NAM) with HEPA filtration. The contractor will also be using generators for maintaining electrical supply. In the case of generator failure, all workers will leave the work area and seal the containment. A replacement generator will be available onsite or within an hour's time of the project for use in case of failure. Work will resume when negative pressure is restored. If negative pressure is not restored within an hour's time alternate means of electrical supply will be sought. If no supply is available, contractor will contact CDPHE and follow directions for spill response.

3.7 Air Exchange Calculations

AIR CHANGE CALCULATIONS *for a 2000 cfm negative air machine (NAM)*

$$\text{AIR CHANGES} = \frac{A}{B \times C} \quad \text{Where: } A = \text{Work area volume in cubic feet } (l \times w \times h)$$

$B = 15 \text{ minutes}$
 $C = \text{Estimated rated capacity of NAM (1,500 cfm)}$

Phase 1 – Textured Drywall and Vent Wrap (Full Containment)

$$\begin{aligned} A &= 37 \times 25 \times 9 = 8325 \text{ cubic feet} \\ B \times C &= 22,500 \\ \frac{8325}{22,500} &= 0.37 \end{aligned}$$

1 NAM required
2 NAM's recommended

3.8 Containment Construction

Containments for the asbestos removal shall be constructed in accordance with CDPHE Regulation 8 and this project design. Danger signs will be posted at ingress locations, and approaches to locations, where airborne concentrations of asbestos exceed or can reasonably be expected to exceed the PEL. Signs will be posted at a distance sufficiently far from the work area to permit an employee to read the sign and take the necessary protective measures to avoid exposure. Additional signs may need to be posted following construction of workplace containment barriers.

Danger signs will include the following wording:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA**

3.9 Set up of work areas

Full Containment Components

2"x 4"s wood studding can be used as temporary framing and 4' x 8' x 1/2" plywood sheets to support any exterior containment systems; this may include tie wires also where needed. 1 layer of 10 mil re-enforced poly sheeting will be utilized for any exterior critical barriers, negative air machines will be installed once the poly sheeting is installed. A full 3 stage decontamination unit equipped with hot and cold water, shampoo, disposable towels, and a 2 stage water filtration unit filter all water to 5 micron, prior to being discharged into the sanitary sewer system. Two layers of 4 mil poly sheeting will be installed within the 10 mill critical poly sheeting barriers as exterior walls and ceiling if needed. 2 layers of 6 mill poly sheeting will be placed on floors. View ports will be installed where appropriate with a minimum of 12" x 12" Plexi™ glass and or exterior windows.

Air flow testing utilizing smoke tubes will be performed to validate air flow direction and air exchanges.

Pre-Cleaning Activities

Pre-cleaning activities will be performed in accordance with CDPHE Regulation 8. All workers performing pre-cleaning must utilize HEPA equipped vacuums and wet methods. Any prepping activities that will contact non-friable ACM, or be within arms' reach of friable ACM must be accomplished by workers utilizing PPE.

3.10 Asbestos Removal

Removal of materials containing asbestos and contaminated with asbestos shall be performed in accordance with the Colorado Department of Public Health and Environment Regulation 8 III, Abatement, Renovation and Demolition Projects and this project design.

3.11 Asbestos Spill Response

In the event of a spill or a breach of the regulated work area containment, follow procedures in Section III.T. of Regulation No. 8, which includes cleaning the area outside the regulated work area. Visible debris shall be cleaned utilizing HEPA vacuuming and wet wiping plus an additional 10 horizontal feet beyond the visible debris. All filters, mop heads, and cloths utilized during clean-up activities shall be disposed of as asbestos contaminated waste in leak tight containers.

The GAC shall have available, equipment and supplies (HEPA filtered vacuum, airless sprayer with amended water, mops, rags, polyethylene sheeting, duct tape, caution tape...) for spill response in the event of accidental spill of materials containing asbestos.

In the event of an asbestos spill outside the work area containment the GAC shall:

- Make appropriate notices based on size of spill.
- Immediately wet the spilled material and surrounding area with the airless sprayer.
- Restrict access to the spill area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Seal all openings between the contaminated and uncontaminated areas as directed by the asbestos consultant. This is to be accomplished by using polyethylene sheeting and tape.
- HEPA vacuum and wet clean all surfaces in the contaminated area.

Following completion of the above, the on sight Air Monitoring Specialist shall conduct a visual assessment of the spill area to confirm adequate cleaning has been accomplished by the GAC.

3.12 Asbestos Waste Transportation, Storage, and Disposal

All ACM waste must be wrapped in two layers of 6 mil polyethylene sheeting or double-bagged in 6 mil polyethylene bags labeled with the appropriate OSHA label for asbestos and must also bear the generator label as required by EPA's 40 CFR 61 Subpart M NESHAP Standard. Containerizing and transport of asbestos wastes shall be in accordance with applicable federal and state regulations.

The existing installed building finishes, hardscaping and landscaping shall be protected from damage by the GAC, until completion of all works.

Safety scaffolding, rubbish skips, access ladders etc. shall be approved by the client and in accordance with the current Health and Safety regulations.

GAC workers will not drag or drop packaged waste. All waste equipment and materials will be hand carried, or transported in wheeled carts to waste transport vehicles.

All packaged asbestos waste shall be directly loaded from the work area onto a 6mil polyethylene lined enclosed truck or dumpster container for disposal. No waste material may be temporally stored in the building or the work area containment.

Waste Disposal:

All waste containers shall be transported from the permitted work areas to an approved disposal land fill by the GAC (Denver Aurora Disposal Site).

Waste Transporter:

By 5280 Waste Solutions.

3.13 Final Clean/ Final Visual Inspection Criteria

All interior surfaces of the work area will be free of visible dust and debris. The work area must pass a final visual inspection by a CDPHE Certified Air Monitoring Specialist (AMS) leaving only critical barriers in place.

3.14 Final Air Clearance Monitoring

Clearance criteria for this containment shall be in accordance with CDPHE Regulation #8, Section III.P

For each work area within the project where the amount of ACM is:	State-Permitted Project in Non-School Building	
	Minimum # of samples to clear each of the following:	
	Work Area	Project
Less than 3 square feet/3 linear feet	1	5
From 3 square feet/3 linear feet up to 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum	2	5
Greater than 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum up to 160 square feet/260 linear feet/volume equivalent of a 55-gallon drum	5	5
Greater than 160 square feet/260 linear feet/volume equivalent of a 55-gallon drum	5	5

Upon notification that clearance monitoring levels are acceptable, the GAC may remove critical barriers and demobilize from the work area. If any samples collected for the final air test exceeds (0.01 fibers per cubic centimeter, 0.01 f/cm³ for PCM using the NIOSH Method 7400 or 70 structures per square millimeter (70 s/mm²) as analyzed by the TEM method in 40 C.F.R. Part 763 Appendix A to Subpart E (EPA 1995) the entire work area shall be re-cleaned immediately upon receipt of air test results.

Any failed abatement work area shall be re-tested and the costs associated for additional Final Clearance Air Monitoring shall be borne by the GAC at no additional cost to the Owner.

3.15 Personal Exposure Air Monitoring

The GAC shall be responsible for conducting personal exposure air-monitoring as applicable in accordance with OSHA 29 CFR 1926.1101 Asbestos Construction Standard. Contractor to supply results to personnel and will post results onsite.

3.16 Electrical Hazards Control

All electrical power utilized during the project will be on ground fault circuit interrupters (GFCI) whose power source is located outside the work area.

3.17 Emergency Egress and Fire Protection

The abatement contractor shall abide by the emergency egress rules for the facility. All contractor personnel shall receive emergency procedure orientation specific to the facility prior to initiation of abatement activities.

3.18 Fire Protection Plan

1. No items capable of initiating or sustaining combustion (lighters, matches, torches, etc.) will be allowed in containment.
2. The use of flammable liquids is not permitted.
3. Any electricity utilized must be on Ground Fault Circuit Interrupters (GFCI).
4. A minimum of one, 2A: 20B: C rated fire extinguishers will be maintained on-site. There must be available at least one 2A: 20B: C rated fire extinguisher within a maximum travel distance of 10 feet from any point in the work area.

5. Workers will be trained in the use of fire extinguishers, emergency egress plans, basic fire safety, and emergency reporting procedures prior to work beginning.
6. All emergency exits will be labeled as such with tools available for breaching poly and keys in door locks where necessary.
7. The Contractor must implement an emergency action and fire prevention plan in accordance with 29 CFR 1910.38 Employee emergency plans and fire prevention plans.

3.19 Fall Protection

The GAC shall provide proper fall protection and training for their employees when working above 6 feet of height in accordance with Occupational Safety and Health Administration 29 CFR Part 1926 Subpart M Fall Protection.

3.20 Respiratory Protection / PPE

The GAC shall provide proper respiratory protection for their employees with NIOSH approved HEPA filters during all pre-clean, abatement removal, waste load out procedures and during waste lift operations for effected employees. The GAC shall provide proof of medical fitness to wear respiratory protection and current fit testing documentation for all employees.

3.21 Work Area Protection

The GAC shall repair or replace, to the Owner's satisfaction, any damage caused by the GAC or GAC subcontractors, to existing finishes, landscaping, or other building components.

3.22 Additional PPE

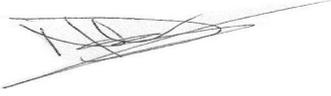
- Hooded Tyvek suits
- Safety Glasses with side shields (exception – not required when wearing a full face respirator).
- Leather Gloves
- Safety toe boots
- Fall Protection as required.
- PPE per MSDS / SDS requirements.

3.23 Pre-Abatement Document Submittal

The GAC shall provide the following submittals to the Owner's Asbestos Competent Person / Safety Department for approval prior to site mobilization.

- ✓ Copies of all worker AHERA / STATE certifications.
- ✓ Copies of all worker asbestos medical evaluations.
- ✓ Copies of all worker respirator fit tests.
- ✓ Copies of MSDS for all chemicals (spray-glue, encapsulant, surfactant etc.) that will be used
- ✓ Asbestos waste receipt / total.

Completed by:

A handwritten signature in black ink, appearing to read 'NDV', is written over a horizontal line.

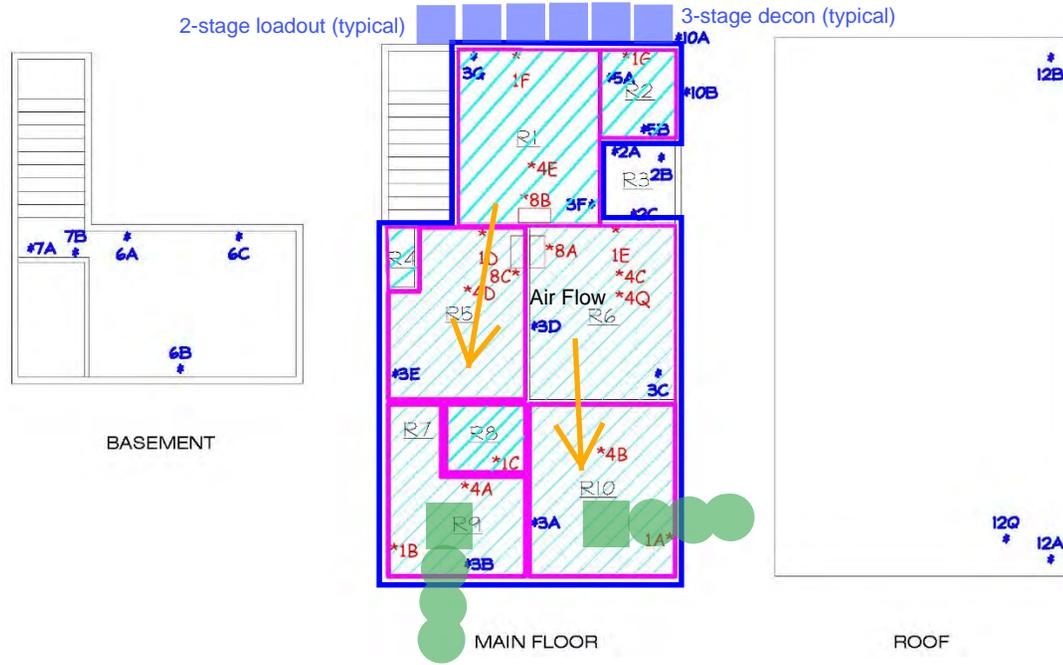
Nicolas D. Vasquez CDPHE Asbestos Project Designer Certificate # 22566

Foothills Environmental Asbestos Consulting Firm CDPHE Registration # 14925

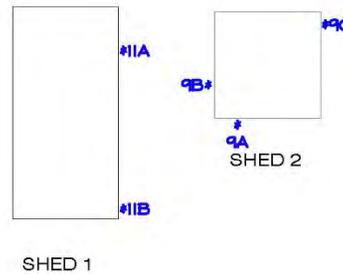
Appendix A

Drawings

ABATEMENT IN FULL CONTAINMENT (11/26/18 - 12/7/18)



- = Positive Asbestos at Ceiling
- = Positive Asbestos at Walls
- R1 = Room Numbers
- 4B = Asbestos Samples (Detect)
- 4B = Asbestos Samples (Non-Detect)
- = Vent Boot Wrap Positive for Asbestos



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/8" = 1'-0"

FIGURE 2 - Asbestos Bulk Sample Locations
 CENTRAL 70 - Structure Survey Assessment Map
 AP-8
 4618 High St., Denver, CO
 May 10, 2018
 APEC #: 18-3066

ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 PUEBLO, CO 81003 Ph: (719) 545-0375

Drawing excerpted from All-Phase Inspection

4618 N. HIGH STREET DENVER, CO (Not to Scale)	FEI Project #AS18207-8	Date: 10/22/18	Figure 1
	Approved by: DMB	Drawn By: NDV	
Foothills Environmental, Inc. 11099 W 8 th Avenue Lakewood, CO 80215			
		Signature:	CDPHE CERT #22566

Appendix B

Certificates



Colorado Department
of Public Health
and Environment

ASBESTOS CONSULTING FIRM

This certifies that

Foothills Environmental, Inc.

Registration No.: ACF - 14925

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos consulting activities as required under Regulation No 8, Part B, in the state of Colorado.

Issued: January 30, 2018

Expires: January 30, 2019

Authorized APCD Representative

SEAL



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Nicolas Vasquez

Certification No.: 22566

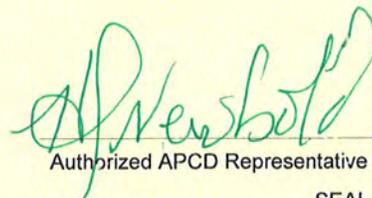
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Project Designer*

Issued: February 08, 2018

Expires: February 08, 2019

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative

SEAL



CHC Training
Nationwide Training & Certification Experts
www.trainingchc.com
303.412.6360
(855) 60.CERTIFY

1775 West 55th Avenue
Denver, CO 80221,
United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

NICOLAS VASQUEZ

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training course under section 206 of the Toxic Substance Control Act (TSCA) and Colorado Regulation No. 8 entitled

PROJECT DESIGNER

COURSE DATE:	DECEMBER 21, 2017
EXPIRATION DATE:	DECEMBER 21, 2018
COURSE HOURS:	8.0

Verify Credential



Danaya N. Benedetto
Co-Founder & CEO
Training Program Manager

Credential License ID: 11084750



Frank Hulce
Instructor

CHC Training Certificate No.
R17-2200-APD-CO

Visit our Website



6c. Pre-Demolition Engineering Survey



Pre-Demolition Survey
And General Demolition Plan
For
4618 High Street
Denver, CO 80216



Engineers: David A. Poe, P.E., S.E.
Glen L. Wilson, E.I.

July 6, 2018
Project No: 180113

July 6, 2018

Stephen P. Di Nardo
JKS Industries, LLC
747 Sheridan Blvd #9A
Lakewood, CO 80214

Re: 4618 High Street, Denver, CO 80216
Pre-Demolition Engineering Survey per OSHA 1926.850(a)
And General Demolition Plan

Date of Observation: 07/03/18

Dear Mr. Di Nardo:

At the request of JKS Industries (JKS), a representative from Anchor Engineering, Inc. (AEI) performed a site observation at the above-referenced structure on Tuesday, July 3, 2018.

For the purpose of this report, there are four buildings on the property. The front elevation of the residence faces west and is parallel to High Street. There are three additional structures on the property. At the time of our visit the buildings were vacant.

The purpose of our site visit was twofold:

1. To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject building.

- a. ***OSHA 1926.850(a):*** *Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.*

Project Specific Applicability: The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-project meeting, and it shall also be included in the job site books.

- b. ***OSHA 1926.85(b):*** *When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.*

Project Specific Applicability: 4618 High Street, Denver, CO 80216 has not been damaged by any fire, flood, explosion, or any other event. Therefore, no shoring or bracing is required.

- c. ***OSHA 1926.850(c):*** *All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.*

Project Specific Applicability: The contractor and subcontractor will ensure all electric, gas, water, steam, sewer, and other services are to be cut off prior to any work being performed. Contractor shall confirm with KMP through the pre-demolition check list and present the necessary information in the pre-demolition meetings.

- d. **OSHA 1926.850(d):** *If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.*

Project Specific Applicability: The demolition of 4618 High Street, Denver, CO 80216 does not require any power, water or other utilities.

- e. **OSHA 1926.850(e):** *It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.*

Project Specific Applicability: All types of hazardous chemicals, gases, explosives, flammable materials, or other dangerous substances shall be removed from the structure prior to demolition as part of the pre cleaning phase during the environmental remediation. All materials are to be documented, manifested, and included in the environmental close out documents.

- f. **OSHA 1926.850(f):** *Where a hazard exists from fragmentation of glass, such hazards shall be removed.*

Project Specific Applicability: All hazards from fragmentation of glass shall be removed in the normal course of demolition.

- g. **OSHA 1926.850(g):** *Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- h. **OSHA 1926.850(h):** *When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- i. **OSHA 1926.850(i):** *All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

OSHA 1926.850(j): *Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor construction shall begin at the top of the structure and proceed downward. Each story of exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

- j. **1926.850(k):** *Employee entrances to multistory structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof), and shall be capable of sustaining a load of 150 pounds per square foot.*

Project Specific Applicability: Not applicable. Building is a single story structure. No employees are permitted to enter the structure once demolition begins.

2. Provide a general outline of the demolition procedures and sequence that is proposed to be used in the demolition of the subject structure. These outlined procedures/sequences are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations.

No architectural or structural drawings were provided for our review.

The residence is a single-story residential structure and is assumed to be founded on a spread footings. The structure has a partial basement with an assumed rubble or masonry foundation walls and an assumed concrete slab on grade floor. The residence is approximately 42'x24' with the long direction oriented east to west. The roof and floor framing is assumed to be composed of dimension lumber framing. The exterior walls are multi-wythe masonry. Near the northwest corner of the property is a 37'x25' metal arch-style building with the long direction oriented east to west. It has a concrete foundation and slab on grade floor. On the east side of the metal building along the north property line is a 11'x25' wood framed shed. Further east on the property is an approximately 11'x11' structure. It appears to have wood framed rafters and floor joist. The exterior walls are constructed of hay bales coated in mud. The foundation appears to be concrete piers with masonry around the perimeter of the building.

Existing Condition Observation

During our site visit we made visual observations around the building perimeters only. The structures were partially exposed in some areas. All of the existing structural systems that were exposed to view appeared to be in good condition. We saw no evidence of noteworthy structural distress. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structures is very low. Workers may be allowed in the buildings to prepare them for demolition with such activities as removal of materials or other work that does not involve activities that affect existing structural systems.

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

We anticipate demolition for this structure to be completed with heavy equipment including:

- "Track-hoe" excavators capable of reaching structural elements to be demolished. Excavators may be equipped at times with buckets/grapples, hydraulically actuated demolition hammers or shears, and other custom extensions for demolition and/or holding elements for temporary stability.
- Small skid steer loaders may also be utilized from time to time during demolition

Demolition Sequencing

General

After the commencement of demolition with heavy equipment, by necessity, structural systems from this point forth will be destroyed. Demolition should proceed as fast as practical until the structure is demolished in its entirety. The lateral stability of the buildings are provided by the perimeter wood-framed walls.

During demolition operations, care must be taken to protect and prevent damage to any active or live utilities both above and below ground. Two utility poles were observed along the south property line. A marker indicating a gas line was observed near the southwest portion of the property.

During demolition, water will be used to wet down the area that is being demolished prior to starting the demolition. During the demolition process a water spray will be used to minimize the fugitive particulate matter emissions. The ground will be sprayed with water either by water truck or some type of water spray to minimize fugitive particulate emissions from haul trucks and demolition equipment.

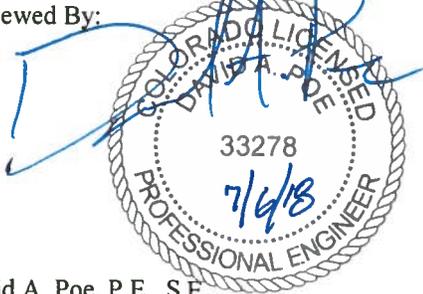
Sequence

The residence superstructure may be collapsed into the basement starting at either the east or west sides of the building and proceeding thru the length of the building in the east/west direction. Do not drive equipment onto the footprint of the building until the structure has been collapsed. The additional structures may be demolished starting from the east or west sides of the structures and proceeding through the structures in the east/west direction. Once the roof, wall, and floor systems are demolished, the slab on grade and foundations can be removed in any sequence.

Closing

This report constitutes an engineering review and summary of the pre-demolition condition of the structural systems of the subject buildings as well as a general outline of demolition procedures and sequencing. Note that the conclusions drawn are based on visual observations and our expertise and experience with structural engineering of building structures. Unless noted otherwise, no non-destructive or destructive testing of any kind was performed, nor was any formal engineering analysis completed. These procedures/sequences outlined herein are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations. Anchor Engineering, Inc. shall be held harmless for damage of any kind to surrounding structures or property or for injury of any kind to any person or persons. The demolition contractor is responsible for jobsite safety. The conclusions presented in this report are based on conditions noted at the time of the observation. Commentary or recommendations regarding environmental issues are beyond the scope of this report. Should questions arise, or if further information is required regarding the content of this report, please contact our office.

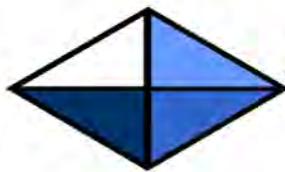
Sincerely,
Anchor Engineering, Inc.

Reviewed By: 


Glen L. Wilson, E.I.
Design Engineer

David A. Poe, P.E., S.E.
Principal

7. Asbestos Clearance Report



ALL-PHASE

ENVIRONMENTAL CONSULTANTS, INC.

November 2, 2018

Air Monitoring Clearance (Asbestos-)

Re: AP-8, 4618 High Street
Denver, Colorado

To Whom It May Concern:

On, November 2, 2018, Richard L. Ralston, Colorado Certified Asbestos Building Inspector and Colorado Air Monitoring Specialist with All-Phase Environmental Consultants, Inc. (APEC), conducted Air Monitoring clearances at the above referenced Subject Property. A visual inspection and air samples were collected inside the abatement containment to ensure that the asbestos fiber counts are below the regulated standard to guarantee this area is safe to re-occupy.

The Containment Air clearance consisted of five (5) 0.08um sampling cassettes, five (5) 1-16 liter per minute pumps, along with Two (2) 20 inch box fans and a one horse power leave blower all used to perform an aggressive clearance of the containment.

Microscopic inspection of the above mentioned five samples were conducted in the All Phase Environmental PCM laboratory. This inspection verified that ALL the samples taken were at or below 0.01 fiber per cubic centimeter as required by the Colorado Department of Public Health and Environmental standard.

All-Phase Environmental is an approved and certified Colorado Department of Public Health and Environment asbestos laboratory.

Based on the visual inspection and the analytical results, the area(s) that was tested is considered safe to re-occupy.

APEC will not be held responsible for the mishandling of the information contained herein, and/or any items found after November 2, 2018.

Please feel free to call with any questions and or concerns.

Sincerely,

Richard L. Ralston
Colorado Certified Asbestos Inspector - 4261
Colorado Certified AMS - 4261



Colorado Department
of Public Health
and Environment

ASBESTOS LABORATORY

This certifies that

All Phase Environmental Consultants, Inc.

Registration No.: AL - 24462

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No 8, Part B, in the state of Colorado.

Issued: April 20, 2018

Expires: April 20, 2019

Authorized APCD Representative

SEAL

8. Materials Summary

December 26, 2018

Jenn Bradtmueller
 Kiewit Infrastructure Co.
 160 Inverness Drive West, Suite 110
 Englewood, CO 80112

RE: AP-8 4618 High Street – Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from 4618 High St. Denver, CO 80216. For more details regarding the location of the Asbestos Containing Materials (ACM) and the asbestos content please refer to the Table 2 of the All-Phase Environmental SSAR (16).

Material Removed	Quantity
Asbestos Containing Textured Drywall	3,129 SF
Asbestos Containing Paper Duct Wrap	9 SF
Regulated Building Materials	7 light bulbs, 2 gallons of latex paint
Clean Demolition Debris	579,600 lbs
Recycled Concrete	145,800 lbs
Recycled Metals (Steel and Copper, unsegregated)	3,200 lbs

If you have any questions or require further information regarding these quantities, please contact me at 303-238-0207.

Sincerely,

JKS Industries, LLC



Jeffrey Knight
 President

9. Waste Manifests

9a. Asbestos Waste Manifests



ASBESTOS NESHAP WASTE SHIPMENT RECORD AP-8

1. Generator ID Number: **NA** 2. Page 1 of 1 3. Emergency Response Phone: **800-424-9300** 4. Waste Tracking Number: **2220021**

5. Generator's Name and Mailing Address: **Colorado Department of Transportation, 747 Shoshone Blvd # 9A, Lakewood CO 80214**
 Generator's Phone: **303-512-5900 (720) 402-4410**
 Generator's Project Address (if different than mailing address): **4618 High St., Denver CO 80216**

6. Transporter 1: Complete Company Name and Address: **5280 Waste Solutions 605 W Grand Ave Denver CO 80221** Transporter Phone: **720 884 10300**

7. Transporter 2: Complete Company Name and Address: _____ Transporter Phone: _____

8. Designated Disposal Facility Name and Site Address: **Denver Airplane Disposal Site, 3500 South Gun Club Road, Aurora CO 80018**
 Facility's Phone: **(720) 876-2620**

9. Waste Shipping Name, Description, & Profile Number	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
	No.	Type			
1. RQ, NA 2212, Asbestos, 9, PG III 12677500 10870300			30 yd		NONE
2. _____					

13. Regulatory Agency: **Colorado Department of Public Health and Environment, 4300 Cherry Creek Drive South, Denver, CO 80222-1530**
 Emergency Notification: **CHEMTREC (800) 424-9300, 24-hour Toll Free Number**

14. Bill to & Account Number: **Customer Acct #: D 14925, Customer Name: JKS Industries**

15. Contractor/Generator Certification:
 I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation and disposal according to applicable national and state governmental regulations.
 I hereby certify that the above described waste is not a hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials.

Generator's/Officer's Printed/Typed Name: **Jenn Bradtmueller** Signature: *[Signature]* Month Day Year: **10 | 24 | 18**
on behalf of CDOT

16. Transporter Acknowledgement of Receipt of Materials
 Transporter 1 Printed/Typed Name: **Robert K. Sasser** Signature: *[Signature]* Month Day Year: **11 | 6 | 18**
 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____

17. Special Handling Instructions: **Soil originating from the above site shall not be used as daily cover or sold as clean fill.**

18. Discrepancy Indication Space: _____ 19. Ticket #: **3253907**
 Initials of Person noting discrepancy: _____ Signature: _____ Date: _____

20. Management Method/Location: **Landfill** _____ **Monofill** **6** _____ **Location:** _____

21. Designated Disposal Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18
 Printed/Typed Name: **Mark Clark** Signature: *[Signature]* Month Day Year: **11 | 6 | 18**

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

9b. Regulated Building Materials (RBMs) Waste Manifests

WASTE BILL OF LADING & CERTIFICATE OF RECYCLING		P/U Fees: \$25 \$30 \$40 \$45 \$55	BOL#: 27201
<input checked="" type="checkbox"/> Universal Waste	4' Jumbo ___ 4' Box ___ 8' Jumbo ___ 8' Box ___	\$65 ___ \$75 ___ \$85 ___ \$95 ___ \$105 ___	Shipment Date: 11/6/18
<input type="checkbox"/> TSCA Waste	HID Box ___ Battery Box ___ 6.5 Gallon Pail ___	\$115 ___ \$125 ___ \$135 ___ \$145 ___ \$155 ___	
<input type="checkbox"/> Special Waste	14-G PD ___ 30-G PD ___ 55-G PD ___ CY Bx ___	Labor Charges: \$ ___	Emergency Contact (877) 331-2149 Extension 4
Generator Of Waste:	95-G PD ___ 55-G SD ___ 85-G SD ___ GL Box ___	Off Spec. Charge: \$ ___	
Name:	Bill To: <u>TKS Inc</u>	Name: <u>TKS Industries</u>	
Address:	Address: <u>747 Sheridan Blvd.</u>	Address: <u>747 Sheridan Blvd.</u>	
City, State, Zip:	City, State, Zip: <u>Lakewood Co. 80214</u>	City, State, Zip: <u>Lakewood Co. 80214</u>	
Contact:	Contact: <u>Jeff Knight</u>	Contact: <u>Jeff Knight</u>	
Phone:	Phone: <u>720-462-4410</u>	Phone: <u>720-462-4410</u>	
Fax:	Fax:	Fax:	
PO#	PO#	PO#	
Job#	Job#	Job#	

WASTE BROKERAGE FACILITY:	EPA ID#: COR000231449
<input checked="" type="checkbox"/> R8E, LLC	Destination Facility for Universal Waste
4810 Newport Street	Large Quantity Handler of Universal Waste
Commerce City Colorado 80033-2244	Hazardous Waste Transporter/Transfer Facility
(p) 303-424-4887 (f) 303-424-9193	Used Oil Transporter/Transfer Facility
Email: Mike@R8Enviro.com	US DOT #: 050108 550 051Q HMP-20746
www.R8Enviro.com	US DOT #1781660 CO TSCA - EPA Approved PCB Handler

Container	Waste Common Name	DOT Description	Total Quantity	Unit / Wt. Volume
2 CF	4' & UNDER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	5' & OVER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	12	ea
	UTUBE FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
1 CF	CIRCULAR FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	COMPACT FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	49	ea
	HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	21	ea
	SHIELD/COATED/GROOVED LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	INCANDESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	36	ea
	UV/ARC/IGNITRON LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	BROKEN LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)	Non-DOT Regulated (per 49 CFR 173.164(e))		
	PCB WASTE RECYCLE/INCINERATION/MICROENCAP	RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171		
	NON-PCB BALLAST RECYCLE/MICROENCAPSULATION	Non-RCRA / Non-DOT Regulated Waste		
	ESCRAP RECYCLING	Non-DOT Regulated	110	P
	MERCURY DEVICE RECYCLING	UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172		
	LEAD ACID BATTERY RECYCLING	UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154		
	ALKALINE BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
	NICKEL (Ni-Cad) BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
	LITHIUM METAL BATTERY RECYCLING - DOT 173.185(d)	UN3090, Lithium Batteries, 9, PGII, ERG#138		
	LITHIUM Ion BATTERY RECYCLING - DOT 173.185(d)	UN3480, Lithium Batteries, 9, PGII, ERG#138		
	WASTE OIL RECYCLING	Special Waste Liquid	1	GAZ
	WASTE GLYCOL RECYCLING	Special Waste Liquid		
71 GALLON	WASTE AEROSOLS	UN1950, Aerosols, Flammable, 2.1, ERG#126		
	WASTE LATEX PAINT	Special Waste Liquid	71	GAZ
	LOW RADIATION CONTAINING SMOKE DETECTORS	Special Waste Solid, Nuclear Regulatory Law 10 CFR 32.37		
	FIRE EXTINGUISHER(S)	Special Waste Solid		
	METALS RECYCLING	Special Waste Solid		
	MISCELLANEOUS RECYCLING <u>3 MICROWAVES</u>			
	MISCELLANEOUS RECYCLING <u>6 Large Fridges</u>		6	ea

Generator Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Unpaid invoices will be assigned to a licensed Collection Agency and subject to Collection Agency Fee's, Attorney's Fee's, Court Costs and Interest.

Signature: <u>[Signature]</u>	Title: <u>Operator</u>	Print Name: <u>Jesus Casado</u>	Date: <u>11-6-18</u>
Transporter 1 Name: <u>Jesus Casado</u>	Transporter 2 Name: _____	Phone Number: <u>720-245-1685</u>	Phone Number: _____
Signature: <u>[Signature]</u>	Date: <u>11-6</u>	Signature: _____	Date: _____

Receiving, subject to the classification and regulations in effect on the date of issue of the Bill of Lading, the property described above is in apparent good order. Please retain a copy of this document as the "Certification of Recycling" for the items and quantities listed above.

Signature: [Signature] Date: 11/6/18

10. Weight Tickets

10a. Daily Load Trackers and Associated Truck
Tickets

Date: 11-13-18

Project: AP-8

Prepared By: Jesus Casado

Arrival Time		Departure Time		Load #	Truck #	Material Code	Description	Tons/Yards	Dump Site	Dump Site Ticket Number
11-13	8:15 am	8:35 am	1	CH333	trash	DEMO debris	18 yds	Dads		
	8:35 am	9:00 am	2	CH575	trash	DEMO debris	18 yds	Dads		
	2:40 am	3:00 am	3	CH333	trash	DEMO debris	18 yds	Dads		
	3:00 am	3:25 am	4	CH575	trash	DEMO debris	18 yds	Dads		
	5:00 am	5:25 am	5	CH333	trash	DEMO debris	18 yds	Dads		
	5:25 am	5:50 am	6	CH575	trash	DEMO debris	18 yds	Dads		
11-14	9:10 am	9:50 am	7	CH279	trash	DEMO debris	18 yds	Dads		
	12:18 am	12:50 am	8	CH333	trash	DEMO debris	18 yds	Dads		
	12:50 am	1:20 am	9	CH575	trash	DEMO debris	18 yds	Dads		
	1:20 am	1:35 am	10	CH279	trash	DEMO debris	18 yds	Dads		
	2:15 am	2:45 am	11	CH333	trash	DEMO debris	18 yds	Dads		
	2:45 am	3:10 am	12	CH575	trash	DEMO debris	18 yds	Dads		
	3:15 am	3:35 am	13	CH279	trash	DEMO debris	18 yds	Dads		
	4:45 am	5:10 am	14	CH333	trash	DEMO debris	18 yds	Dads		
	5:10 am	5:40 am	15	CH575	trash	DEMO debris	18 yds	Dads		
	5:40 am	6:05 am	16	CH279	trash	DEMO debris	18 yds	Dads		
11-15	7:00 am	7:15 am	17	CH575	trash	DEMO debris	18 yds	Dads		
	7:15 am	7:30 am	18	CH333	trash	DEMO debris	18 yds	Dads		
	8:10 am	8:30 am	19	CH279	trash	DEMO debris	18 yds	Dads		
	9:10 am	9:30 am	20	CH575	trash	DEMO debris	18 yds	Dads		
	9:30 am	9:55 am	21	CH333	concret	Concrete		Henderson		
	10:00 am	10:20 am	22	CH279	concret	Concrete		Henderson		
	10:45 am	11:10 am	23	CH333	trash	DEMO debris	18 yds	Dads		
	11:10 am	11:25 am	24	CH575	trash	DEMO debris	18 yds	Dads		
	11:25 am	11:35 am	25	CH279	steet	Rocky M.				

Legend:
Materials:
R = Recycle
T = Trash
Description:
Concrete, Asphalt, Asbestos, Lumber,
Construction Debris, Trash, Metals,

CHAACON'S

construction & transport



No. 8582

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS Const

DISPATCHED BY: Chacon's Const

DATE: 11.13.18 **JOB DESCRIPTION:**

TRUCK # CH 333

TANDEM **TRAILER**

MATERIAL D.it

	LOADS	UNLOADS
JOB#	loads #	
LOAD AT	2:45 dets	AP-8
Hwy 70	2:40 dets	1P-8
brington blvd		
UNLOAD AT		
Dets pit		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 5:00		
STOP TIME 7:00 PM		
TOTAL HOURS		
11 hrs	OWNER OF TRUCK:	

DRIVER'S NAME	AUTHORIZED SIGNATURE
Tusto Castillo	[Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No. 8018

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO:		
DISPATCHED BY: J.A.S		
DATE: 11/13/18	JOB DESCRIPTION: Demc	
TRUCK # CH 575		
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL Demc		
	LOADS	UNLOADS
JOB#		DADS
LOAD AT Hwy 70 Brighton Blvd	1	DADS DADS
UNLOAD AT DADS		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00 AM		
STOP TIME 7:00 PM		
TOTAL HOURS		
11 hrs	OWNER OF TRUCK:	
DRIVER'S NAME	AUTHORIZED SIGNATURE	
Jose	[Signature]	
<p>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</p>		

CHAACON'S
construction & transport



No. 7630

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: <i>JKS Industries inc</i>		
DISPATCHED BY:		
DATE: <i>11-14-18</i>	JOB DESCRIPTION:	
TRUCK # <i>279</i>	<i>Central 70 Project</i>	
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL <i>Demo</i>		
	LOADS	UNLOADS
JOB#		<i>Ticket # AP 8</i>
LOAD AT <i>1-70/ Brighton Blv</i>		<i>Ticket # AP 8</i>
		<i>Ticket # AP 8</i>
UNLOAD AT <i>DADS</i>		<i>Ticket # AP 8</i>
RATE \$		
HOURLY <input checked="" type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME <i>8:00</i>		
STOP TIME <i>7:20</i>		
TOTAL HOURS		
<i>1 1/2 hrs</i>	OWNER OF TRUCK:	<i>Chacon Const inc</i>
DRIVER'S NAME		AUTHORIZED SIGNATURE
<i>Ramon Baro S</i>		<i>[Signature]</i>
<small>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</small>		

CHAACON'S
construction & transport



No. 8583

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JHS Const		
DISPATCHED BY: Chacon's Const		
DATE: 11-14-18	JOB DESCRIPTION:	
TRUCK # 011333		
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL D.it		
	LOADS	UNLOADS
JOB#	loads #	
LOAD AT Hwy 10	7:20	Party received
	10:00 clads	Ap-8
	3:00 clads	Ap-8
bl. kyleon blvd	5:00 clads	Ap-8
UNLOAD AT		
Dolos rd		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 7:00		
STOP TIME 7:00 PM		
TOTAL HOURS		
12 hrs	OWNER OF TRUCK:	
DRIVER'S NAME	AUTHORIZED SIGNATURE	
Justin Castillo	[Signature]	
<p>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</p>		

CHACON'S

construction & transport



No. 50341

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: J.F.S.

DISPATCHED BY: Chacon's

DATE 11/14/18 JOB DESCRIPTION: Demo

TRUCK # CH575

TANDEM TRAILER

MATERIAL Demo

	LOADS	UNLOADS
JOB#		
LOAD AT	1	DADS
Hwy 70	1	DADS
Brighton Blvd	1	DADS
UNLOAD AT		
DADS		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 7:00		
STOP TIME 7:15		
TOTAL HOURS		
1.25		

OWNER OF TRUCK:

DRIVER'S NAME: Jose
AUTHORIZED SIGNATURE: [Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

AD-8

CHACON'S
 construction & transport


No 50342

 2920 W. 73rd Ave
 Westminster, CO 80030
 FAX 303-487-5731
 PH 720-357-1448

BILL TO: J.F.S.		
DISPATCHED BY: Chacon		
DATE 11/15/18	JOB DESCRIPTION: Demo	
TRUCK # 6575		
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL Demo		
	LOADS	UNLOADS
JOB#	1	DADS
LOAD AT Hwy 70	1	DADS
Big Iron B18	1	DADS
	1	DADS
	1	DADS
UNLOAD AT L.A. 125	1	DADS
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 7:00		
STOP TIME 7:30		
TOTAL HOURS		
12 1/2		
OWNER OF TRUCK:		
DRIVER'S NAME	AUTHORIZED SIGNATURE	
Jose	[Signature]	
Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.		

CHACONS

construction & transport



Ap-8

No. 7632

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS industries inc

DISPATCHED BY:

DATE: 11-15-18 **JOB DESCRIPTION:**

TRUCK # 279 **Central 70 Project**

TANDEM **TRAILER**

MATERIAL Demo

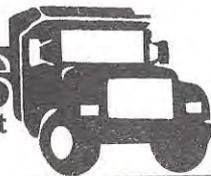
	LOADS	UNLOADS
JOB#	Ticket #	Place
LOAD AT 70 Fwy Brighton Blv	AP 08	DADS
	49	Henderson
UNLOAD AT DADS	10105005	Rocky Mountain
	492802	Henderson
RATE \$	5123000	Rocky Mountain
HOURLY <input checked="" type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00	AP 08	DADS
STOP TIME 7:00 PM		
TOTAL HOURS	AP 08	DADS
11 hrs	OWNER OF TRUCK: Chacon Const	

DRIVER'S NAME	AUTHORIZED SIGNATURE
MAAC	[Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACONS

construction & transport



No. 8584

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS Const

DISPATCHED BY: Chacons Const

DATE: 11-15-18

JOB DESCRIPTION:

TRUCK # CH333

TANDEM TRAILER

MATERIAL Dirt

	LOADS	UNLOADS
--	-------	---------

JOB#	loads #	
------	---------	--

LOAD AT	7:20 dads	4H.8
---------	-----------	------

Hwy 70	9:20 Henderson	492698
--------	----------------	--------

&	11:00 dads	4H.8
---	------------	------

bring them plud		
-----------------	--	--

UNLOAD AT		
-----------	--	--

Dads p.t		
----------	--	--

Henderson p.t		
---------------	--	--

--	--	--

RATE \$		
---------	--	--

HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
--	--	--

START TIME 7:00		
-----------------	--	--

STOP TIME 1:00		
----------------	--	--

TOTAL HOURS		
-------------	--	--

6:00		
------	--	--

OWNER OF TRUCK:		
-----------------	--	--

DRIVER'S NAME	AUTHORIZED SIGNATURE
---------------	----------------------

Justin Castolle	
-----------------	--

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

10b. Recycling Weight Tickets

Ap-8

Rocky Mountain Recycling, Inc.

6510 Brighton Blvd.
Phone 303 288-6868
Fax 303 288-0250

57144
JKS INDUSTRIES
414 14TH STREET
DENVER, CO 80202

Ticket# 5123000
Total \$ \$0.00
Total Lbs 3,200

Colorado Certified Scale #2

November 15, 2018

Weighmaster: JMADERA

Driver:

Tag No:

Notes: @70 & BRIGHTON

Driver:

Truck#:

Description: RBS SIDE DUMP

Container In:

Container Out:



Commercial Ticket - Number: 5123000

<u>Commodity</u>	<u>Gross</u>	<u>Tare</u>	<u>Tare2</u>	<u>Deduct</u>	<u>Net UM</u>	<u>Price</u>	<u>Total</u>
Iron #2 Lite Unprepared	39,200	36,000			3,200 N	0.0000	.00
	39,200	36,000			3,200		.00
						ATM Fee	.00
						Ticket Total	.00

ACCEPTED BY _____

I DECLARE THAT I AM THE SOLE AND RIGHTFUL OWNER OF THIS MATERIAL, AND/OR HAVE THE AUTHORITY TO SELL IT.

AD-8

120 85, LLC
10925 East 120th Ave.
Henderson CO, 80640

Ticket #: 492802
Date: 11/15/2018 1:10 PM
Phone: (303) 731-7542
www.hendersonpit.com

Customer: JKSINDUSTR4297
JKS Industries, LLC
747 Sheridan BLVD
Lakewood CO, 80214

Order Number: BRIGHTON
BRIGHTON BLVD AND I70
Loads: 9

279 -
SCALEOP - Scale Operator

Remarks: RAMON
VW

Signature: _____

Certified
Weigher: _____

Material	Quantity	Price	Material \$	Delivery \$	Misc \$	Tax \$	Line Total \$
END SIDE CLEAN CONCRETE	1.000 EA						

Weight Information

Material	Gross	Tare	Net

FOR YOUR OWN SAFETY, YOU MUST BE SUITABLY TRAINED AND EQUIPPED. HENDERSON PIT IS NOT LIABLE FOR INURIES, DAMAGES, OR DEATH CAUSED AT OWN RISK. LOADER ALWAYS HAS THE RIGHT OF WAY. YOU MUST LOCATE THE PIT OPERATOR PRIOR TO ENTRY. DRIVERS ARE RESPONSIBLE FOR THEIR OWN ACTIONS. WE ACCEPT ONLY INERT, NON-ORGANIC, NON-HAZARDOUS MATERIAL.

AP-8 Concret

120 85, LLC
10925 East 120th Ave.
Henderson CO, 80640

Ticket #: 492698
Date: 11/15/2018 10:01 AM
Phone: (303) 731-7542
www.hendersonpit.com

Customer: JKSINDUSTR4297
JKS Industries, LLC
747 Sheridan BLVD
Lakewood CO, 80214

Order Number: BRIGHTON
BRIGHTON BLVD AND I70
Loads: 7

CH333 -
SCALEOP - Scale Operator

Remarks: JUSTIN
VW

Signature: _____

Certified
Weigher: _____

Material	Quantity	Price	Material \$	Delivery \$	Misc \$	Tax \$	Line Total \$
END SIDE CLEAN CONCRETE	1.000 EA						

Weight Information

Material	Gross	Tare	Net

FOR YOUR OWN SAFETY, YOU MUST BE SUITABLY TRAINED AND EQUIPPED. HENDERSON PIT IS NOT LIABLE FOR INURIES, DAMAGES, OR DEATH CAUSED AT OWN RISK. LOADER ALWAYS HAS THE RIGHT OF WAY. YOU MUST LOCATE THE PIT OPERATOR PRIOR TO ENTRY. DRIVERS ARE RESPONSIBLE FOR THEIR OWN ACTIONS. WE ACCEPT ONLY INERT, NON-ORGANIC, NON-HAZARDOUS MATERIAL.

Ap-8 Concret

120 85, LLC
10925 East 120th Ave.
Henderson CO, 80640

Ticket #: 492720
Date: 11/15/2018 10:38 AM
Phone: (303) 731-7542
www.hendersonpit.com

Customer: JKSINDUSTR4297
JKS Industries, LLC
747 Sheridan BLVD
Lakewood CO, 80214

Order Number: BRIGHTON
BRIGHTON BLVD AND I70
Loads: 8

279 -
SCALEOP - Scale Operator

Remarks: RAMON

Signature: _____

Certified
Weigher: _____

Material	Quantity	Price	Material \$	Delivery \$	Misc \$	Tax \$	Line Total \$
END SIDE CLEAN CONCRETE	1.000 EA						

Weight Information

Material	Gross	Tare	Net
----------	-------	------	-----

FOR YOUR OWN SAFETY, YOU MUST BE SUITABLY TRAINED AND EQUIPPED. HENDERSON PIT IS NOT LIABLE FOR INURIES, DAMAGES, OR DEATH CAUSED AT OWN RISK. LOADER ALWAYS HAS THE RIGHT OF WAY. YOU MUST LOCATE THE PIT OPERATOR PRIOR TO ENTRY. DRIVERS ARE RESPONSIBLE FOR THEIR OWN ACTIONS. WE ACCEPT ONLY INERT, NON-ORGANIC, NON-HAZARDOUS MATERIAL.

10c. Waste Weight Tickets



2476931

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3268289

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES
Ticket Date 11/13/2018 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0014925
State Waste Code Gen EPA ID
Manifest Grid
Destination
PO
Profile ()
Generator

	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/13/2018 07:30:45	MANUAL WT	SLA		Tare	1 lb*
Out	11/13/2018 07:30:45		SLA		Net	1 lb
			* Manual Weight		Tons	

Comments 6 loads on drop tickets central 70 project 108cyds total 11/13/18 REPLACEMENT

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 CDY-CONST DEBRIS - 100		108.00	Yards				

Total Fees
Total Ticket



Date: 11-13-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: DRIVER: Justin Castle

6x18 cyds = 108
cyds
TOTAL
All loads

Date: 11-13-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____
DRIVER: [Signature]

Date: 11-13-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____ 

Date: 11-13-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: JUSTIN 

Date: 11-13-18

Ticket#: Ap-8

ACCT#:306-14925

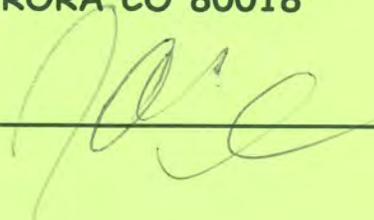
JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGH SIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____



Date: 11-13-18

Ticket#: Ap-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGH SIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

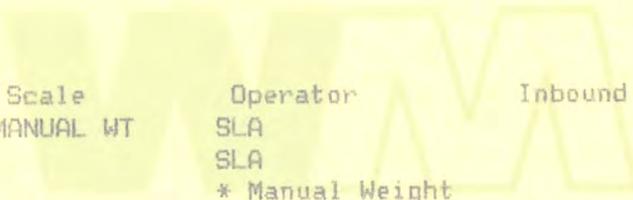


2476932

Denver Arapahoe Disposal
3500 S Gun Club, PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3266290

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	11/14/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					



	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/14/2018 09:07:46	MANUAL WT	SLA		Tare	1 lb*
Out	11/14/2018 09:07:46		SLA		Net	1 lb
			* Manual Weight		Tons	
Comments	18 loads on drop box tickets 11/14/18 REPLACEMENT TICKET FOR TICKET # 3260190					

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100	198.00	Yards				

Total Fees
Total Ticket



Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____ DRIVER [Signature]

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____ DRIVER: Ramon Baro

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: _____

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: *Larry Bero*

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

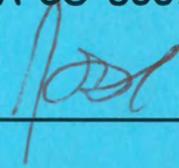
JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____



Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

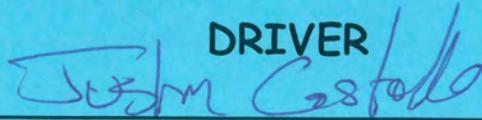
JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: _____



Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: Ramon Baro

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

11 x 18 = 198 d/s

DRIVER

Signature: Joshua Estrella

Date: 11-14-18

Ticket#: AP ✓

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: DRIVER: Justin Costello

Date: 11-14-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: DRIVER: Ryan Pave

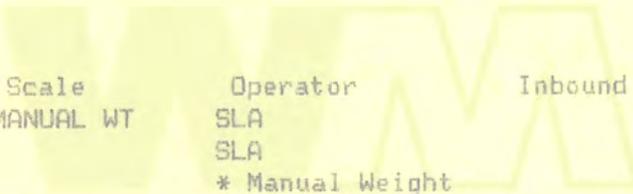


2476933

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3268292

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	11/15/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					



	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/15/2018 06:56:19	MANUAL WT	SLA		Tare	1 lb*
Out	11/15/2018 06:56:19		SLA		Net	1 lb
			* Manual Weight		Tons	

Comments 12 loads blue and green drop tickets 11/15/18 =216 cyuds total REPLACEMENT TICK

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100	216.00	Yards				

Total Fees
Total Ticket



Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Castello

12 loads x 18 yds =

216 yds
TOTAL
for All
Loads.

Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

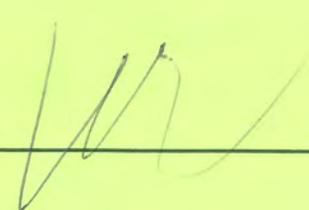
CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: _____



Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: MCC

Date: 11-15-18

Ticket#: _____

ACCT#:306-16232

GREAT HALL BUILDERS
DIA-GREAT HALL 8500 PENA

CDT 10 yds

Time: 1230 AM
DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

GROSS: 23,400 TARE: 15,720
DRIVER

Signature: [Signature] #790

Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

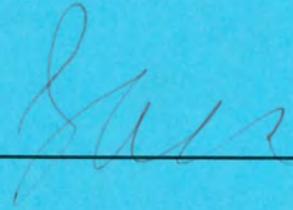
CDY 18 YDS

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____

DRIVER



Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____

DRIVER

Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: MAC

Date: 11-15-18

Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 11.15-18

Ticket#: Ap 8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS _____ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 11-15-18

Ticket#: Ap 8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS _____ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: MAC

Date: 11-15-18

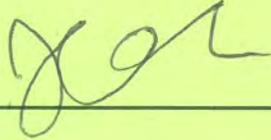
Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____ DRIVER 

Date: 11-15-18

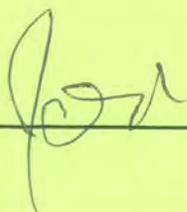
Ticket#: AP-8

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: _____ DRIVER 

11. Dump Diversion Summary

JKS Industries
AP-8: 4618 High St.

Descriptions		Dump Diversion / Recycle %								
Phase	Activity	Unit of Measure	# of Yards per Container	# of Containers	Total Number of Yards	Pounds Per Yard **	Total Lbs	Recycled Yes/No	Pounds of Recycle or Dump Diversion	% of Recycle or Dump Diversion
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
Demolition	Demolition Construction Debris	Cubic Yard	18	23	414.00	1,400.00	579,600			
Demolition	Concrete Debris	Cubic Yard	12	3	36.00	4,050.00	145,800	x	145,800	20.01%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	x	-	0.00%
Demolition	Steel	Lbs	-	-	-	-	3,200	x	3,200	0.44%
Demolition	Copper	Lbs	-	-	-	-	-	x	-	0.00%
				26	450.00		728,600		149,000	20.45%

STUDY NOTES

- 1 The source material used for the Volume to Weight conversions came from Waste Management web site.
- 2 Conversions ratio's have been modified based on estimated compaction.

12. Containment Entry/Exit Log

JKS INDUSTRIES

Wednesday

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Job Name:
Job #:

Date: 10-24-18

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Andre Williams	2:00			2:30
2. David Schlote	2:00			3:20
3. Victor Lerman	2:00			3:20
4. Luca Gaspar	2:00			3:20
5. Daisy Arellano	2:00			3:20
6. Martha Nahl	2:00			3:20
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

JKS INDUSTRIES

Thursday

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Job Name:

Job #:

Date: 10-25-18

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Andre Williams	10:00			10:45
2. Paul Williams	7:30	11:00	12:00	4:15
3. David Schlotz	7:30	11:00	12:00	4:20
4. Ivan Gaspar	7:30	11:00	12:00	4:25
5. Daisy Arellanos	7:30	11:00	12:00	4:25
6. Victor Lerra	7:30	11:00	12:00	4:15
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

JKS INDUSTRIES

Friday

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Job Name:

Job #:

Date: 10-26-18

	NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1.	Andre Williams				
2.	Victor Lerma	7:45	11:00	12:06	2:20
3.	David Schlote	7:45	11:00	12:00	2:20
4.	Wanda Gaspar	7:45	11:00	12:00	2:20
5.	Daisy Arellanos	7:45	11:00	12:00	2:20
6.	Paul Williams	7:45			9:50
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

Monday

JKS INDUSTRIES

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Job Name:

Job #:

Date: 10-29-18

	NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1.	<i>Andrew Williams</i>	<i>8:00</i>	<i>11:00</i>	12:00	3:15
2.	<i>Paul Williams</i>	<i>7:30</i>	<i>11:00</i>	<i>12:00</i>	<i>3:15</i>
3.	<i>Deisy Arellanos</i>	<i>7:30</i>	<i>11:00</i>	<i>12:00</i>	<i>3:15</i>
4.	<i>Victor Lemm</i>	<i>7:30</i>	<i>11:00</i>	<i>12:00</i>	<i>3:15</i>
5.	<i>David Schlote</i>	<i>7:30</i>	<i>11:00</i>	<i>12:00</i>	<i>3:15</i>
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

JKS INDUSTRIES

Tuesday

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Job Name:
Job #:

Date: 10-30-18

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Andrew Williams	10:00	11:00	12:30	2:30
2. David Schlotte	7:30	11:30	12:30	2:30
3. Victor Lerman	7:30	11:30	12:30	2:30
4. Daisy Arellanos	7:30	11:30	12:30	2:30
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

13. Daily Logs

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-309
Date 10-24

Job Name: Kewit AP-08
Day Wednesday Month Oct

Report # _____
Year 2018

Project Manager Steve

Superintendent Andrew Williams

Work Performed Today <u>Complete Containment</u>		Weather: _____		
<u>7:00</u>	<u>Safety meeting & Tool Box briefing</u>	Temp. Hi _____	Low _____	
		Safety Meeting		
<u>7:30</u>	<u>Continue Building Decon and loadout while setting up containment</u>	Topic: _____		
		Work Force	Number	
		Project Manager		
		Project Supervisor	1	
		Operators		
		Laborers		
		Tradesmen	6	
<u>9:45</u>	<u>Neg air pressure establish at 0.31</u>	Other: _____		
		Other: _____		
		Other: _____		
<u>10:30</u>	<u>Decon finished and ready. Continue building direct loadout and completing containment</u>	Materials Used		
		Quantity		
<u>12:00</u>	<u>lunch</u>			
<u>2:00</u>	<u>Containment is complete ready to begin gross removal while direct loadout is being completed</u>			
<u>3:30</u>	<u>End of day Task completed:</u> <u>Decon: 100%</u> <u>Containment: 100%</u> <u>loadout: 90%</u> <u>Removal: 10%</u>	Material Purchased/Delivered		
Problems - Delays, Safety Issues				
<u>None</u>				
Subcontractor Progress				
Inspections				
<u>Sup</u>				
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-309
Date 10-25

Job Name: Kiewit AP-08
Day Thursday

Month Oct

Report # _____
Year 2016

Project Manager Steve

Superintendent Andrew Williams

Work Performed Today <u>Gross Removal & Complete loadout</u>		Weather: <u>Sunny</u>	
<u>7:00</u>	<u>Safety & Tool Box Meeting</u>	Temp. Hi <u>60</u> Low <u>39</u>	
		Safety Meeting	
<u>7:30</u>	<u>Continue Gross removal in R6-R10</u>	Topic:	
	<u>R7 R8 & R9 of walls and Ceiling</u>	Work Force	Number
		Project Manager	
<u>9:30</u>	<u>Direct load complete ready to load</u>	Project Supervisor	<u>1</u>
	<u>after lunch</u>	Operators	
		Laborers	
<u>11:00</u>	<u>Lunch</u>	Tradesmen	<u>5</u>
		Other:	
<u>12:00</u>	<u>Two guys load dumpster while</u>	Other:	
	<u>three continue 3 continue with</u>	Other:	
	<u>gross removal</u>	Materials Used	Quantity
	↓		
<u>3:00</u>	<u>Clean up work area seal direct</u>		
	<u>loadout and shower out</u>		
	<u>Completed task: loadout 100%</u>	Material Purchased/Delivered	
	<u>R7 100%</u>		
	<u>R8 100%</u>		
	<u>R9 100%</u>		
	<u>R10 100%</u>		

Problems - Delays, Safety Issues

None

Subcontractor Progress

Sup

Inspections

Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours

Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-309
Date 10-26

Job Name: Kiewit AP-08
Day Friday

Month Oct

Report # _____
Year 2018

Project Manager Steve

Superintendent Andrew Williams

Work Performed Today <u>Detail R7,8,9,10, Gross remove R5,6,1</u>		Weather: <u>Sunny</u>	
<u>7:50</u>	<u>Tool Box & Safety Meeting</u>	Temp. Hi <u>61</u> Low <u>48</u>	
		Safety Meeting	
<u>7:50</u>	<u>Detail R7,8,9,10 Begin Gross removal in R5,6,1 Ceilings and walls</u>	Topic:	
		Work Force	Number
		Project Manager	
		Project Supervisor	<u>1</u>
		Operators	
		Laborers	
		Tradesmen	<u>5</u>
<u>11:00</u>	<u>Lunch</u>	Other:	
		Other:	
		Other:	
<u>12:00</u>	<u>Continue gross removal in R5,6,1 while load dumpster</u>	Materials Used	
			Quantity
<u>2:45</u>	<u>Clean up work area prepare to shower out</u>		
		Material Purchased/Delivered	
<u>2:30</u>	<u>End of Day Task Completed:</u>		
	<u>Detail in R7,8,9,10 100%</u>		
	<u>Gross removal in R5,6,1 90%</u>		
	<u>Detail in R5,6,1 30%</u>		

Problems - Delays, Safety Issues

None

Subcontractor Progress

Sup

Inspections

Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-309
Date 10-29

Job Name: Kiewit AP-08
Day Monday Month Oct

Report # _____
Year 2018

Project Manager Steve

Superintendent Andrew Williams

Work Performed Today <u>Gross Removal Detail & Final Detailing</u>		Weather: <u>Bunny</u>	
<u>7:00</u>	<u>Safety Meeting & Tool Box meeting</u>	Temp. Hi <u>79</u> Low <u>43</u>	
<u>7:30</u>	<u>Finish up gross removal in R1 & R2</u>	Safety Meeting	
	<u>complete detailing in R5, 6, 1, 2</u>	Topic:	
	↓	Work Force	Number
		Project Manager	
		Project Supervisor	<u>1</u>
		Operators	
		Laborers	
<u>9:30</u>	<u>Gross removal Completed in all areas</u>	Tradesmen	<u>4</u>
		Other:	
<u>11:00</u>	<u>lunch</u>	Other:	
		Other:	
<u>12:00</u>	<u>Continue with detailing and Prepping for final clean</u>	Materials Used	Quantity
<u>2:30</u>	<u>Wash out tools Extn, ladders & Equipment</u>	Material Purchased/Delivered	
<u>3:30</u>	<u>End of day Completed Task:</u>		
	<u>All Areas Gross Removal 100%</u>		
	<u>All Areas Detailing 100%</u>		
	<u>Final Detailing 20%</u>		

Problems - Delays, Safety Issues

None

Subcontractor Progress

Inspections

Sup

Equipment Rented Today	Rented From	Insp Checklist Complete?	Equipment	Hours

Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-309
Date 10-30

Job Name: Kiewit AP-08
Day Tuesday

Report # _____
Month Oct Year 2018

Project Manager Steve

Superintendent Andrew Williams

Work Performed Today <u>Final Detailing Prep for Clearances</u>		Weather: <u>Cold Cloudy</u>	
<u>7:00</u>	<u>Safety & Tool Box meeting</u>	Temp. Hi <u>41</u>	Low <u>34</u>
<u>7:30</u>	<u>Continue with Final Detailing & Prep for visual inspection</u>	Safety Meeting	
		Topic:	
		Work Force	Number
		Project Manager	
		Project Supervisor	<u>1</u>
		Operators	
		Laborers	
		Tradesmen	<u>4</u>
		Other:	
		Other:	
		Other:	
<u>10:00</u>	<u>Dumpster area clean, sealed, ready for inspection all work areas been washed down and being wiped down</u>	Materials Used	
			Quantity
<u>11:30</u>	<u>lunch</u>		
<u>12:30</u>	<u>Continue Prepping Containment for Visual & Air Clearances</u>		
<u>1:00</u>	<u>Visual Inspection</u>		
<u>3:00</u>	<u>Passed Visual Inspection ready for air clearances</u>	Material Purchased/Delivered	

Problems - Delays, Safety Issues

None

Subcontractor Progress

Inspections

Sup & Hygienist

Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours

Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # AP-8
Date 11-12-18

Job Name: 18-309

Day Monday

Month Nov

Report # _____
Year 2018

Project Manager Steve

Superintendent _____

Work Performed Today		Weather: <u>Snow</u>		
<p>11/12 Demoed all buildings on property</p>	Temp. Hi _____ Low <u>22</u>		Safety Meeting	
	Topic:		Work Force	
			Number	
			Project Manager	
			Project Supervisor	
			Operators	
			Laborers	
			Tradesmen	
			Other:	
			Other:	
			Other:	
			Materials Used	
			Quantity	
			Material Purchased/Delivered	
	Problems - Delays, Safety Issues			
Subcontractor Progress				
Inspections				
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
<u>T30 EX</u>	<u>United</u>			
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		

